EPA Registration # 1706-242 Volume 4



UNITED STAT. ENVIRONMENTAL PROTECTION GENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

November 16, 2015

Linda J. Fane Senior Manager 1601 West Diehl Rd. Naperville, Ill 60563-1198 City/Town, State Zip Code

Subject:

Label Amendment – Add 31 optional marketing claims

Product Name: Purate

EPA Registration Number: 1706-242 Application Date: June 15, 2015 Decision Number: 507828

Dear Ms. Fane:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E), and 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Page 2 of 2 EPA Reg. No. 1706-242 Decision No. 507828

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact David Liem by phone at 703-305-1284, or via email at liem.david@epa.gov.

Sincerely,

Demson Fuller, Product Manager 32 Regulatory Management Branch II Antimicrobials Division (7510P) Office of Pesticide Programs

Enclosure



A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chlorine Dioxide Generator

This chemical solution is for the use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this precursor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstock of 78% sulfuric acid. Please refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT:

 Sodium Chlorate (NaClO₃)
 40.0%

 OTHER INGREDIENTS:
 60.0%

 TOTAL
 100.0%

	FIRST AID
F IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
F ON SKIN Ö CLOTHING	R Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.
FSWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
FINHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible Call a poison control center or doctor for treatment advice.

In case of exposure emergency, call (800) 424-9300

PRECAUTIONARY STATEMENTS:

ACCEPTED

11/16/2015

Under the Federal Insecticide, Fungicide and Redenticide Act as amended, for the pesticide registered under

EPA Reg. No. 1706-242

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

1

This product is toxic to fish and aquatic or ms. Do not discharge effluent containing the induct into lakes, streams, ponds, estuaries, oceans or other waters with the requirements of a midonal Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites:

Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 - 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either

method of application must maintain a reconcentration of 0.1 - 5.0 ppm of chlorine de in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxio. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

Impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids (NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters.

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 – 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for non-pesticidal uses such as:

Oxidizing nutrients Reducing studge

Eliminating odors Clarifying/precipitating organic and inorganic particles

Controlling scale & deposits Reducing TOC (Total Organic Carbon)

Controlling iron & manganese Reducing color

Controlling corrosion Destruction of odors caused by phenolic simple cyanides and sulfides by chemical

oxidation

Storage and Disposal Statement for non-refillable & refillable containers:

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promptly

after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alternatively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration.

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

{Note to reviewer: The following is considered optional marketing language :}

- 1. Chlorine dioxide is an effective biocide against microbial and algal slime in challenging water conditions in recirculating cooling water towers.
- 2. Chlorine dioxide is an effective biocide against adult mollusks in challenging water conditions in oncethrough cooling water towers.
- 3. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in textile processing water.
- 4. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in paper process water.
- 5. Chlorine dioxide is an effective biocide against bacterial slime in challenging water conditions in pasteurizer [, cannery] [and] [, retort water systems].
- 6. Chlorine dioxide is an effective biocide against microorganisms and algae that cause unacceptable odors and slime in challenging water conditions in [impound lake water] [,] [pond water] [reservoir water] [industrial waste water]
- 7. Chlorine dioxide is an effective biocide against slime caused by microbial populations in challenging water conditions in [gas and oil recovery injection water] [and] [fracturing system fluids]
- 8. Chlorine dioxide generated from Purate is effective at pH greater than 7.
- 9. Chlorine dioxide generated from Purate is effective at pH between 3-10.
- 10. Chlorine dioxide generated from Purate efficacy is not impacted in the pH range of 3-10.
- 11. The efficacy of chlorine dioxide generated from Purate is unaffected by ammonia, oil or organic contamination in cooling water or drinking water systems.
- 12. Because the use of chlorine dioxide generated from Purate allows for lower usage rates to maintain control of the system, it reduces the copper corrosion rates
- 13. Copper corrosion potential can be reduced by using chlorine dioxide generated from Purate
- 14. Chlorine dioxide generated from Purate reduces corrosion potentials, helping to expand the life of assets such as condensers and cooling towers.
- 15. Chlorine dioxide generated from Purate penetrates, removes, controls or prevents microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 16. Chlorine dioxide generated from Purate can help remove, control or prevent microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 17. As a dissolved gas, chlorine dioxide penetrates and removes microbial slime, helping to recover the performance of your heat exchangers (condenser and cooling tower).

- 18. Replacing Cl2 with chlorine dio generated from Purate can decrease the o-fouling and increase the flow rate through the condenser
- 19. Replacing Cl2 with chlorine dioxide generated from Purate can decrease the micro-fouling and improve the pressure drop in the condenser
- . 20. Chlorine dioxide generated from Purate helps clean and loosen slime debris from recirculating cooling tower surfaces, pasteurizer, cannery or retort water surfaces, textile or pulp and paper water surfaces, impound lakes, ponds or reservoir water including industrial waste water.
- 21. Chlorine dioxide generated from Purate reduces the need for corrosion inhibiting chemicals in cooling water applications
- 22. Chlorine dioxide generated from Purate improves filter operation.
- Chlorine dioxide generated from Purate is effective against adult and veliger forms of mussels including zebra mussels.
- 24. Addition of chlorine dioxide generated from Purate to the cooling water does not form corrosive byproducts. Corrosion of copper metal surfaces is not accelerated by biocide treatment.
- 25. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in cooling water rather than being consumed by inorganic-reducing substances in the cooling water.
- 26. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in drinking water rather than being consumed by inorganic-reducing substances in the drinking water.
- 27. Surface-active properties of Chlorine dioxide generated from Purate provide a cleansing action that minimizes under-deposit corrosion. This means improved heat transfer and lower operating costs.
- 28. Effective for use in hard waters at low use concentrations, which means that chlorine dioxide generated from Purate is a cost-effective microbiological treatment in cooling water to complement water and cost savings associated with operating at high cycles of concentration.

Liem, David

From:

Fane, Linda < Ifane@nalco.com>

Sent:

Monday, November 16, 2015 9:46 PM

To:

Liem, David

Cc:

Fane, Linda

Subject:

FW: Label Amendment= Purate (#1706-242)=FANE

Attachments:

Purate=1706-242-20151116.pdf

Importance:

High

Hi David,

I confirm receipt of the Agency letter.

Thank you for your assistance with this submission.

Linda

Linda J. Fane

Senior Manager GLOBAL REGULATORY AFFAIRS

NALCO| An Ecolab Company 1601 W DIEHL RD, NAPERVILLE, IL 60563

T 630 305 1455 F 630 305 2985 E Ifane@nalco.com

From: Liem, David [mailto:Liem.David@epa.gov] Sent: Monday, November 16, 2015 3:15 PM

To: Fane, Linda

Subject: Label Amendment= Purate (#1706-242)=FANE

Importance: High

Linda

Please find attached the Agency letter and stamped label for PURATE (#1706-242) amendment dated June 15, 2015 for your record. Please acknowledge the receipt of these document for the Agency record. Thanks.

David Liem
Antimicrobial Division
Office of Pesticide Programs
Environmental Protection Agency
703-305-1284
Liem.david@epa.gov



A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chlorine Dioxide Generator

This chemical solution is for the use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this precursor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstock of 78% sulfuric acid. Please refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE **KEEP OUT OF REACH OF CHILDREN** DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

understand the labe ACTIVE INGREDIEN Sodium Chlorate (Nat OTHER INGREDIEN	te la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you in, find someone to explain it to you in detail.)" T: CIO ₃)	10113/15 10113/15		
	FIRST AID	,		
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.			
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.			
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.			
IF INHALED Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.				
Have the product	container or label with you when calling a poison control center or doctor, or going for treatment.			
NOTE TO P	HYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.			

in case of exposure emergency, call (800) 424-9300

NALCO COMPANY	EPA Reg. No. 1706-242
1601 W. Diehl Road	EPA Est. No. 49620-MS-1
Naperville, IL 60563-1198	
(630) 305-1000	
Net Contents	Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

Revision 10/13/2015

Ecolot bold 10/13/15

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites:

Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 - 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either

method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

Impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids (NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters.

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 – 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for non-pesticidal uses

such as:

Oxidizing nutrients Reducing sludge

Eliminating odors Clarifying/precipitating organic and inorganic particles Controlling scale & deposits Reducing TOC (Total Organic Carbon)

Controlling iron & manganese Reducing color

Controlling corrosion Destruction of odors caused by phenolic simple cyanides and sulfides by chemical

oxidation

Storage and Disposal Statement for non-refillable & refillable containers:

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promptly

3

after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alternatively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration.

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

{Note to reviewer: The following is considered optional marketing language :}

- 1. Chlorine dioxide is an effective biocide against microbial and algal slime in challenging water conditions in recirculating cooling water towers.
- 2. Chlorine dioxide is an effective biocide against adult mollusks in challenging water conditions in oncethrough cooling water towers.
- 3. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in textile processing water.
- 4. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in paper process water.
- 5. Chlorine dioxide is an effective biocide against bacterial slime in challenging water conditions in pasteurizer [, cannery] [and] [, retort water systems].
- 6. Chlorine dioxide is an effective biocide against microorganisms and algae that cause unacceptable odors and slime in challenging water conditions in [impound lake water] [,] [pond water] [reservoir water] [industrial waste water]
- 7. Chlorine dioxide is an effective biocide against slime caused by microbial populations in challenging water conditions in [gas and oil recovery injection water] [and] [fracturing system fluids]
- 8. Chlorine dioxide generated from Purate is effective at pH greater than 7.
- 9. Chlorine dioxide generated from Purate is effective at pH between 3-10.
- Chlorine dioxide generated from Purate efficacy is not impacted in the pH range of 3-10.
- 11. The efficacy of chlorine dioxide generated from Purate is unaffected by ammonia, oil or organic contamination in cooling water or drinking water systems.
- 12. Because the use of chlorine dioxide generated from Purate allows for lower usage rates to maintain control of the system, it reduces the copper corrosion rates
- 13. Copper corrosion potential can be reduced by using chlorine dioxide generated from Purate
- 14. Chlorine dioxide generated from Purate reduces corrosion potentials, helping to expand the life of assets such as condensers and cooling towers.
- 15. Chlorine dioxide generated from Purate penetrates, removes, controls or prevents microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 16. Chlorine dioxide generated from Purate can help remove, control or prevent microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 17. As a dissolved gas, chlorine dioxide penetrates and removes microbial slime, helping to recover the performance of your heat exchangers (condenser and cooling tower).

- 18. Replacing Cl2 with chlorine dioxide generated from Purate can decrease the micro-fouling and increase the flow rate through the condenser
- 19. Replacing Cl2 with chlorine dioxide generated from Purate can decrease the micro-fouling and improve the pressure drop in the condenser
- 20. Chlorine dioxide generated from Purate helps clean and loosen slime debris from recirculating cooling tower surfaces, pasteurizer, cannery or retort water surfaces, textile or pulp and paper water surfaces, impound lakes, ponds or reservoir water including industrial waste water.
- 21. Chlorine dioxide generated from Purate reduces the need for corrosion inhibiting chemicals in cooling water applications
- 22. Chlorine dioxide generated from Purate improves filter operation.
- 23. Chlorine dioxide generated from Purate is effective against adult and veliger forms of mussels including zebra mussels.
- 24. Addition of chlorine dioxide generated from Purate to the cooling water does not form corrosive byproducts. Corrosion of copper metal surfaces is not accelerated by biocide treatment.
- 25. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in cooling water rather than being consumed by inorganic-reducing substances in the cooling water.
- 26. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in drinking water rather than being consumed by inorganic-reducing substances in the drinking water.
- 27. Surface-active properties of Chlorine dioxide generated from Purate provide a cleansing action that minimizes under-deposit corrosion. This means improved heat transfer and lower operating costs.
- 28. Effective for use in hard waters at low use concentrations, which means that chlorine dioxide generated from Purate is a cost-effective microbiological treatment in cooling water to complement water and cost savings associated with operating at high cycles of concentration.



UNIT L. STATES ENVIRONMENTAL PROTECTIC . AGENCY WASHINGTON, D.C. 20460

July 27, 2015

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. TAMERA MCKEEHAN ECOLAB, INC. NALCO COMPANY A SUBSIDIARY OF ECOLAB, INC. 370 WABASHA STREET NORTH ST. PAUL, MN 55102-1390

PRODUCT NAME: PURATE

COMPANY NAME: NALCO COMPANY

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 1706-242 EPA RECEIPT DATE: 07/16/15

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 32, at (703) 308-8062.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



630 305 1455 **6** 630 305 2945

Linda Fane Senior Manager 1601 W. DIEHL ROAD NAPERVILLE, IL 60563-1198 Ifane@nalco.com

June 15, 2015

Document Processing Desk (NOTIFY)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Demson Fuller PM-32

Subject: Label Amendment

Product: Purate (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco Company is submitting an amendment to add optional marketing text to our label for Purate (EPA Registration Number 1706-242).

In support of this amendment I have included:

- 1. The EPA Application Form (EPA Form 8570-1)
- 2. Amended label with the optional marketing text highlighted in yellow

If you have any questions, please contact me at 630-305-1455.

Regards

Linda J. Fane

Senior Manager/Regulatory Affairs

Please read instructions on reverse before completing m. Form Approved. OMB No. 2070-0060, Approval expires 2-28-95					
	-	Un. ates		Re ation	OPP Identifier Number
EPA Environmental Prote			ion Agency	Amendment	
Washington, DC 2			460	Other	
	· · · · · · · · · · · · · · · · · · ·	Applicatio	n for Pesticide – Section	ı I	
1. Company/Product Nu	ımber		2. EPA Product Mana	ager 3.	Proposed Classification
1706-242 4. Company/Product (N			Demson Fuller PM#	🗅	None Restricted
4. Company/Product (N	ame)		32		
5. Name and Address of	Applicant (Include ZIP	Code)		ew. In accordance with	h FIFRA Section 3(c)(3)
Nalco, an Ecolab Con			(b)(i), my product is	similar or identical in	
1601 West Diehl Road	i		labeling to:		
Naperville, IL 60563			EPA Reg. Nos.		
	Check if this is a new ad	dress	Product Names		
			Section - II		
Amendment – Exp	lain below.		Final printed	d labels in response to	· •
·	sponse to Agency letter	dated		er dated	
 - 			"Me Too" A	Application	
Notification – Expl	ain Below.		Other – Exp	lain Below.	•••
Explanation: Use add	litional page(s) if necess	ary. (For Section			••••
Label amendment					•••• • ·
Label amenument	to aud optional ma	i keting text.			•••••
					• • • • • • • • • • • • • • • • • • • •
					••••
•					•
			C 4. THE		1
Section - III					
1 No.4i. l This Day do	W. D. D. J J. I.		Section - III		•
1. Material This Produ Child-Resistant		1;		2. Type of Co	
1. Material This Produ Child-Resistant Packaging	Unit Packaging Yes	1;	Water Soluble Packaging Yes	2. Type of Co	
Child-Resistant	Unit Packaging	1;	Water Soluble Packaging	I — ''	
Child-Resistant Packaging	Unit Packaging Yes No	_	Water Soluble Packaging Yes No	Metal Plastic Glass	
Child-Resistant Packaging Yes No	Unit Packaging Yes No If "Yes"	No. per	Water Soluble Packaging ☐ Yes ☐ No If "Yes" No. pe	Metal Plastic Glass	
Child-Resistant Packaging Yes	Unit Packaging Yes No	_	Water Soluble Packaging Yes No	Metal Plastic Glass Paper	
Child-Resistant Packaging Yes No * Certification	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per Container	Water Soluble Packaging Yes No If "Yes" Packaging wgt. No. pe	Metal Plastic Glass Paper Other (Sp	ontainel
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per	Water Soluble Packaging Yes No If "Yes" Packaging wgt. No. pe	Metal Plastic Glass Paper Other (Sp	ontainer pecify) <u>Bulk</u>
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per Container 4. Size(s) Reta	Water Soluble Packaging Yes No If "Yes" Packaging wgt. No. pe	Metal Plastic Glass Paper Other (Sp 5. Location of	ontainer pecify) <u>Bulk</u>
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plastic	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk	Metal Plastic Glass Paper Other (Sp 5. Location of	pecify) <u>Bulk</u> Label Directions
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plastic	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk	Metal Plastic Glass Paper Other (Sp 5. Location of On Label On Label	pecify) <u>Bulk</u> Label Directions
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plastic	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk	Metal Plastic Glass Paper Other (Sp 5. Location of On Label On Label	pecify) <u>Bulk</u> Label Directions
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plastic Lithograp Paper Gli	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk	Metal Plastic Glass Paper Other (Sp 5. Location of On Label On Label	pecify) <u>Bulk</u> Label Directions
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plastic Lithograp Paper Gli Stenciled	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk ph ued	Metal Plastic Glass Paper Other (Sp 5. Location of On Labeli On Labeli Other	ontainer pecify) Bulk Label Directions ng accompanying product
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plastic Lithograp Paper Gli Stenciled	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk Section - IV	Metal Plastic Glass Paper Other (Sp 5. Location of On Labeli On Labeli Other	ontainer pecify) <u>Bulk</u> Label Directions ng accompanying product
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp. Name	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plastic Lithograp Paper Glo Stenciled for identificatio	Water Soluble Packaging Yes No No If "Yes" Packaging wgt. Container c tote, bulk Section - IV In of individual to be contacted, if title	Metal Plastic Glass Paper Other (Sp On Label On Label Other Telephone	ontainer Decify) Bulk Label Directions Ing accompanying product Sapplication.
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Label 1. Contact Point (Comp	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plastic Lithogra Paper Gle Stenciled for identificatio	Water Soluble Packaging Yes No If "Yes" No. pe Packaging wgt. Container to tote, bulk Section - IV In of individual to be contacted, if little Senior Manager, Regulatory Af	Metal Plastic Glass Paper Other (Sp On Label On Label Other Telephone	becify) Bulk Label Directions Ing accompanying product S application) The No. (Include Area Code)
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp Name Linda J. Fane	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plastic Lithogra Paper Gli Stenciled for identificatio	Water Soluble Packaging Yes No If "Yes" No. pe Packaging wgt. Container to tote, bulk Section - IV In of individual to be contacted, if little Senior Manager, Regulatory Af	Metal Plastic Glass Paper Other (Sp 5. Location of On Labeli On Labeli Other Telephon ffairs Metal Plastic Glass Paper Other (Sp 5. Location of Con Labeli On Labeli Telephon 630-305	becify) Bulk Label Directions In accompanying product Is application.) The No. (Include Area Code) 1455 Date Application Received
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lal 1. Contact Point (Comp Name Linda J. Fane I certify that the statacknowledge that are	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product whether items directly below tements I have made on my knowingly false or m	No. per Container 4. Size(s) Reta 311 gal. plastic Lithogra Paper Gli Stenciled for identificatio T S Certifica this form and all	Water Soluble Packaging Yes No If "Yes" No. pe Packaging wgt. Container to tote, bulk Section - IV In of individual to be contacted, if title enior Manager, Regulatory Afortion	Metal Plastic Glass Paper Other (Sp 5. Location of On Labeli On Labeli Other Telephon frairs 630-305	becify) Bulk Label Directions Ing accompanying product S application) The No. (Include Area Code) 1455
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lal 1. Contact Point (Comp Name Linda J. Fane I certify that the sta acknowledge that ac under applicable law	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product whether items directly below tements I have made on my knowingly false or m	No. per Container 4. Size(s) Reta 311 gal. plastic Lithogra Paper Gli Stenciled for identificatio T S Certifica this form and all isleading statement	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk Section - IV on of individual to be contacted, if itle senior Manager, Regulatory Aftition attachments thereto are true, accuent may be punishable by fine or in	Metal Plastic Glass Paper Other (Sp 5. Location of On Labeli On Labeli Other Telephon frairs 630-305	becify) Bulk Label Directions In accompanying product Is application.) The No. (Include Area Code) 1455 Date Application Received
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp. Name Linda J. Fane I certify that the state acknowledge that ac	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product elete items directly below tements I have made on ny knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plastic Lithogra Paper Gli Stenciled for identificatio T S Certifica this form and all isleading statement	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container to tote, bulk Section - IV In of individual to be contacted, if title enior Manager, Regulatory Afattachments thereto are true, accurated.	Metal Plastic Glass Paper Other (Sp 5. Location of On Labeli On Labeli Other Telephon frairs 630-305	becify) Bulk Label Directions In accompanying product Is application.) The No. (Include Area Code) 1455 Date Application Received
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp Name Linda J. Fane I certify that the sta acknowledge that ar under applicable lav 2. Signature	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product elete items directly below tements I have made on ny knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plastic Lithograp Paper Gli Stenciled for identificatio T S Certifica this form and all isleading statemed	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container c tote, bulk Section - IV on of individual to be contacted, if itle senior Manager, Regulatory Aftition attachments thereto are true, accuent may be punishable by fine or in	Metal Plastic Glass Paper Other (Sp St. Location of On Labeli On Labeli On Labeli Other Telephonerate and complete. I imprisonment or both	becify) Bulk Label Directions In accompanying product Is application.) The No. (Include Area Code) 1455 Date Application Received
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp. Name Linda J. Fane I certify that the state acknowledge that ac	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product elete items directly below tements I have made on ny knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plastic Lithograp Paper Gli Stenciled for identificatio T Certifica this form and all isleading statemed	Water Soluble Packaging Yes No If "Yes" Packaging wgt. Container cotote, bulk Section - IV In of individual to be contacted, if little Senior Manager, Regulatory Affition attachments thereto are true, accuent may be punishable by fine or in the little Title	Metal Plastic Glass Paper Other (Sp St. Location of On Labeli On Labeli On Labeli Other Telephonerate and complete. I imprisonment or both	becify) Bulk Label Directions In accompanying product Is application.) The No. (Include Area Code) 1455 Date Application Received



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

July 27, 2015

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. TAMERA MCKEEHAN ECOLAB, INC. NALCO COMPANY A SUBSIDIARY OF ECOLAB, INC. 370 WABASHA STREET NORTH ST. PAUL, MN 55102-1390

PRODUCT NAME: PURATE

COMPANY NAME: NALCO COMPANY

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 1706-242 EPA RECEIPT DATE: 07/16/15

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 32, at (703) 308-8062.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



1 630 305 1455

9 630 305 2945

Linda Fane Senior Manager 1601 W. DIEHL ROAD NAPERVILLE, IL 60563-1198 Ifane@nalco.com

June 15, 2015

Document Processing Desk (NOTIFY)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Demson Fuller PM-32

Subject: Label Amendment

Product: Purate (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco Company is submitting an amendment to add optional marketing text to our label for Purate (EPA Registration Number 1706-242).

In support of this amendment I have included:

- 1. The EPA Application Form (EPA Form 8570-1)
- 2. Amended label with the optional marketing text highlighted in yellow

If you have any questions, please contact me at 630-305-1455.

Regards

Linda J. Fane

Senior Manager/Regulatory Affairs

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060, Approval expires 2-28-95						
T EPA	Environme	Unit tates ntal Protect	tion Agency	Regardation		
1:		shington, DC 20	0 0	Other		
Application for Pesticide – Section I						
1. Company/Product Nu	ımber		2. EPA Product M		3. Proposed Classification	
1706-242			Demson Fuller		None Restricted	
4. Company/Product (Na Purate TM	ame)		PM# 32			
5. Name and Address of	f Applicant (Include ZIF	Code)		view. In accordance	with FIFRA Section 3(c)(3)	
Nalco, an Ecolab Con	npany	•			al in composition and	
1601 West Diehl Road	d		labeling to:		· ·	
Naperville, IL 60563			EPA Reg. Nos.			
	Check if this is a new aa	ldress	Product Names			
			Section - II			
Amendment – Exp	lain below.		Final pri	nted labels in response t	0	
Resubmission in re	sponse to Agency letter	dated		etter dated		
Notification – Expl			"Me Too	" Application		
, , ,ouncation – typi	ant Dolow.		Other – E	Explain Below.		
Explanation: Use add	fitional page(s) if necess	ary. (For Section	n I and Section II.)			
Label amendment	to add optional ma	rketing text			•	
	** • • • • • • • • • • • • • • • • • •					
:						
1						
ì						
•						
•			~	<u>.</u>		
<u>}</u>			Section - III			
1. Material This Produ Child-Resistant	ict Will Be Packaged In Unit Packaging	n:	Water Soluble Packaging	2 Type	of Container	
Packaging	Yes		Yes	Meta		
Yes	⊠ No		N₀	Plast		
No No				Glas		
* Certification	If "Yes"	No. per		. per Pane		
must be submitted	Unit Packaging wgt.	Container	Packaging wgt. Co		r (Specify) <u>Bulk</u>	
3. Location of Net Cont	ents Information	4. Size(s) Ret	eil Container		on of Label Directions	
. Docation of Net Colli	ona molmativii	311 gal. plast		On La		
Label						
6. Manner in Which Lal		Lithogra	nh	Other		
, mantos in Willon Dai	oo. 15 / HILAGU TO I TOUUC	Paper G	•			
Stencil						
;		atenene	Section - IV			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)						
Name	nese nema un ceny verov		ritle		ephone No. (Include Area Code)	
Linda J. Fane		 	Senior Manager, Regulatory	Affairs 630	-305-1455	
I nominate at a control	tamanta I hava I -	Certification and all		nounate and assumber	6. Date Application Received	
	I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both (Stamped)					
under applicable la					` ` / ` ′ _ [
2. Signature			3. Title		·	
Tenda	Uhra.		Senior Manager, Regulatory	A ffaire		
1 Typed Name			SCHOOL WINDAUGE REQUIRENTY	Allalia		
4. Typed Name						
tinda J. Fane			5. Date June 15, 2015			

Fuller, Demson

Subject:

Purate: 1706-242 Optional Marketing Claims

Location:

Teleconference

Start: End: Thu 10/8/2015 11:30 AM Thu 10/8/2015 12:00 PM

Recurrence:

(none)

Meeting Status:

Accepted

Organizer:

Fane, Linda

Hi Demson, Just wanted to get this meeting on your calendar.

-- Do not delete or change any of the following text. --

Join WebEx meeting

Meeting number:

If you are the host, you can use the meeting host key to pass the host privilege to another participant or to start the meeting from a video conferencing system or application. To find the host key for this meeting, go here.

Join by phone

JS Toll Free US Toll

Personal privacy information

Access code:

Global call-in numbers | Toll-free calling restrictions

Can't join the meeting? Contact support.

IMPORTANT NOTICE: Please note that this WebEx service allows audio and other information sent during the session to be recorded, which may be discoverable in a legal matter. By joining this session, you automatically consent to such recordings. If you do not consent to being recorded, discuss your concerns with the host or do not join the session.



RE: Comments on submitted amen...

We may have questions or need arification. I will call you to did ass these over the phone.

Thanks again and have a great day!

Linda J. Fane

Senior Manager
GLOBAL REGULATORY AFFAIRS

NALCO! An Ecolab Company 1601 W DIEHL RD, NAPERVILLE, IL 60563

T 630 305 1455 F 630 305 2985 E Ifane@nalco.com

Less (01(2)=

From: Liem, David [mailto:Liem.David@epa.gov]
Sent: Friday, September 25, 2015 1:55 PM

To: Fane, Linda

Subject: Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Importance: High

Dear Ms Fane

After reviewing your submitted amendment for Purate (EPA Reg#1706-242) to add optional marketing text, the following marketing claims were not acceptable and must be removed because they are false and misleading, per 40CFR156(10)(5). (Also refer to PR Notice 93-6 –False and misleading statement and the OPP Label Review Manual (Chapter's 4 and 12), and DIS/TSS#1 and Efficacy#810:

- Claim No. 1: The "broad spectrum biocide" claim must be removed. The claim is comprehensive and can be construed as effective against public health organisms. No efficacy data were submitted to support these claims
- Claim Nos. 2 5: Based on your posted website, the pH claims correlate with public health claims (http://www.ecolab.com/~/media/Ecolab/Ecolab/20Home/Documents/DocumentLibrary/Brochures/Nalco%20WPS/B1423PurateOnSiteChlorideDioxideGeneration.ashx). This may imply that the product has a unique characteristic because of its composition
- Claim No. 6: The claim is comprehensive and can be construed as effective against public health organisms. Alternatively, you can qualify "ammonia or oil organic contamination" with non-public health claims (e.g., oil organic contamination found in gas and oil recovery injection water)
- Claim Nos. 7- 10: The claims are comparative. In addition, for Claim # 7, the claim is comprehensive (see comment #6)
- Claim Nos. 13-15: No efficacy data were submitted to support "biofilm" claims. The claims must be removed or, alternatively, "biofilm" must be qualified to "slime-forming bacteria"
- Claim Nos. 18-21& 23: The claims you are proposing to minimize or reduce (i.e., by-products, THM, HAA, AOX) may need to be further substantiated with data and reviewed by our science branches.

- Claim No. 22: The sim is comprehensive and can be cons do as effective against public health organisms. No efficacy data were submitted to support the claims. In addition, the claim is comparative
- Claim No. 25: The claim is comparative
- Claim Nos. 29 & 31 The claims are comprehensive and can be construed as effective against public health organisms.

No efficacy data were submitted to support these claims

Please resubmit you updated amendment, and if you have further questions please don't hesitate to contact me.

David Liem
Antimicrobial Division
Office of Pesticide Programs
Environmental Protection Agency
703-305-1284
Liem.david@epa.gov

Fuller, Demson

From:

Hsieh, Diana

Sent:

Wednesday, October 07, 2015 8:41 AM

To: Cc: Fuller, Demson Breithaupt, James

Subject:

RE: Draft Language/By-Products Claim

Hi Demson!

I asked Jim's advice and we edited your response slightly,

"I followed up with our risk assessment team regarding this question. You will need to provide information to support the claim that chlorine dioxide is producing the by-products in negligible amounts. You may provide public literature that supports this claim or conduct a study on your own. This information is non-guideline and is not normally required to support a pesticide product application but is necessary to support the above claim."

I hope this will answer their question.

Thanks, Diana

From: Fuller, Demson

Sent: Monday, October 05, 2015 4:06 PM

To: Hsieh, Diana Cc: Henson, Wanda

Subject: Draft Language/By-Products Claim

Hey Diana,

I appreciate the follow up you provided me last week about the Nalco/Ecolab claim below. Per our conversation, I drafted a response I was going to provide to the company (see in blue). Just to make sure, the by-products are not any degradates that we would need to do any further review...right? If so, and if Nalco may push back and argue that these claims are non-pesticidal and have no risk significance in making a determination with this product application.

"I followed up with our risk assessment team regarding this question. You will need to provide information to show what level of chlorine dioxide is producing the by-product in negligible amounts. This information is non-guideline and is not required to support a pesticide product application. However, if your company can provide public literature that supports your claim, we will do a quick informal review of it to determine if it is adequate."

Byproduct claims:

- 1. We'd like to understand what specifically would need to be provided by EPA to allow the 18-21 & 23 claims. Mr. Liem said that data "may" need to be provided (see Mr. Liem's comments in red below). Can you provide additional information on what data is needed and if we are required to submit it for review?
- 2. Claim Nos. 18-21& 23: The claims you are proposing to minimize or reduce (i.e., by-products, THM, HAA, AOX) may need to be further substantiated with data and reviewed by our science branches.

Demson Fuller

Product Manager, Team 32 US Environmental Protection Agency Office of Pesticide Programs Antimicrobials Division Regulatory Management Branch II (703)-308-8062

CHLORINE DIOXIDE

A world-class biocide for challenging water conditions



Chlorine Dioxide Advantages

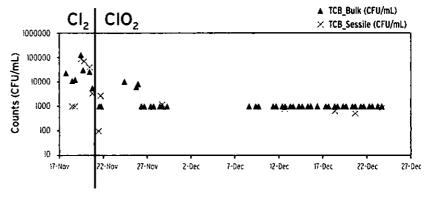
Chlorine dioxide (CIO₂) is a world-class water antimicrobial that can be applied in treatment of recirculating cooling towers with the following advantages:



Effectively reduces bacteria counts including oil contamination compared to chlorine-based biocide programs. Less CIO₂ is required to achieve similar performance.

RESULTS IN A REFINERY

> 90% Total Count Bacteria reduction in bulk and sessile samples

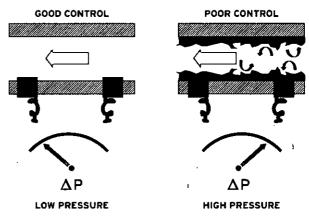




As a dissolved gas, it penetrates and removes biofilm, helping to recover the performance of your heat exchangers (condenser and cooling tower).

RESULTS IN A POWER PLANT

Replacing CI, with CIO2 decreased the micro-fouling and increased the flow rate through the condenser



MICROBIAL FOULING CAN REDUCE FLOW AND INCREASE DELTA PRESSURE



DECREASE OF PRODUCTION OUTPUT

Biofilm build-up can decrease heat transfer capabilities and negatively impact production



ASSET PROTECTION

Inadequate microbial control can result in microbiologically influenced corrosion in cooling water systems



MANPOWER LIMITATIONS

Waste of labor resources due to a high number of biocide deliveries, maintenance and feed pump failures

RELIABLE

Nalco is your partner in water treatment.

Our dedicated water treatment experts can help you with a strategy to manage safety concerns, complex regulatory compliances and operational challenges caused by demanding water conditions. We understand the significance and financial impact of those factors on your operation. By partnering with the leading water expert, you will have access to technologies and services that will improve your operational efficiencies and help to make your operation safer and more reliable.



Up to 80% less deliveries are needed compared to bleach



STORAGE .

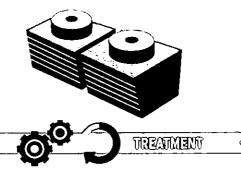
Safer Delivery

Lock & Key PURATE connector minimizes the risk of filling the wrong holding tank



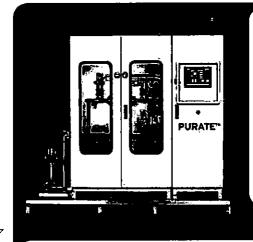
Reliable CIO₂ On-Site Production

- Automated safety controls minimize risk of unauthorized access
- Monitoring of 25+ out-of-design operation conditions initiates automatic shut off and flush of unit
 - Out of chemical
 - Chemical leaks
 - Low-quality acid feed
 - Low water flow conditions



Reliable Performance You Need

- Effective at pHs up to 10.0
- · Unaffected by NH, or oil contamination
- · Reduces copper corrosion potential
- · Penetrates and removes biofilm



System Monitoring

Real-time monitoring of corrosion rates and

CIO, residuals

Chemical Inventory Management

Real-time information on precursor inventory



Generator KPI On-Line Tracking

Reduced system down time and response time

Your Operations Face Unique Challenges...

Security concerns, regulatory discharge limits, contaminated and changing water conditions in combination with the use of an ineffective biocide program and poor monitoring can negatively impact the bottom line of your industrial operation.



SAFETY

Increasing concern for safer on-site delivery and operations



DISCHARGE REGULATORY FINES

Violation of NPDES Permit due to discharging higher amounts of AOX, THM and HAA



INCREASE THE TOTAL COST OF OPERATIONS

PURATE

Nalco's PURATE program is a best-in-class biocide program for challenging water conditions, designed to improve efficiencies and reduce costs.

PURATE brings together turnkey technologies and services to maximize results.

Nalco combines integrated, innovative technologies and broad application and engineering expertise to meet your individual performance goals and to maximize results.



SIMPLE • COST EFFECTIVE

From chemistry production to on-site application – the PURATE program delivers the performance you need.

While chlorine dioxide is considered an effective biocide in highdemand cooling water applications, it has to be delivered in a safe, reliable and cost-effective manner. Designing the PURATE biocide program step by step from chemistry production to meeting discharge limits, we have your security, regulatory compliance and operational efficiency needs in mind.





PRODUCTION

ISO-Certified Production

Best-in-class manufacturing and QA procedures



Chemistry Cross-Contamination Elimination

Exclusive use of designated PURATE trailers



DISCHARGE

By-Products

Minimizes the formation of objectionable by-products

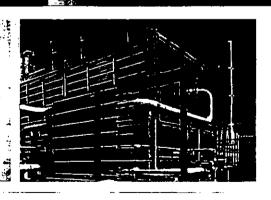
PURATE

A BEST-IN-CLASS BIOCIDE PROGRAM SIMPLE • RELIABLE • COST EFFECTIVE

ON-SITE CHLORINE DIOXIDE GENERATION



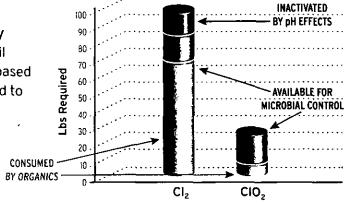




NALCO
An Ecolab Company

(\$)

Significantly reduces consumption by ammonia or organics loads such as oil contamination compared to chlorine-based biocide programs. Less CIO₂ is required to achieve similar performance.

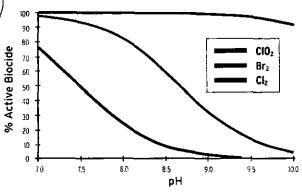


CIO2 IS LESS AFFECTED BY pH AND CONTAMINANTS THAT CREATE DEMAND



It is more effective at pHs greater than 7.0 compared to chlorine and bromine gas.

Less ClO₂ is required to achieve similar performance.



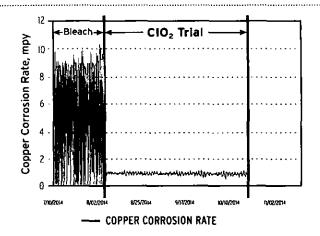
CIO, DISINFECTANT IS EFFECTIVE EVEN AT pH >9



Reduces corrosion potentials, helping to extend the life of assets such as condenser tubes and cooling system piping.

RESULTS IN A POWER PLANT

Significant reduction of corrosion rate if ${\rm CIO}_2$ was added to the system





Minimizes the formation of objectionable by-products, helping to meet NPDES permit requirements.

RESULTS IN A REFINERY

Significant reduction in objectionable by-products after CIO₂ treatment, despite significant increase in oil and grease contamination

	100A Sump		
	8/11/2014 9/22/20		
	Bleach	CIO,	
Oil and Grease (mg/L)	5	39	
Bromodichloromethane (ug/L)	5.6	<.5	
Bromoform (ug/L)	<.5	<.5	
Chloroform (ug/L)	42.3	· <.5	
Dibromochloromethane (ug/L)	1.7	<.5	
Sample Number	NW137164	NW141291	

PURATE

The most efficient and reliable CIO₂ hands-off solution

Cost-effective, patented, two-component formula:

PURATE is a proprietary unique, stabilized solution of sodium chlorate (NaClO₃) and hydrogen peroxide (H₂O₃). The PURATE generator uses PURATE and sulfuric acid to safely produce on-site CIO2. No chlorine gas or hypochlorite are used to generate CIO, in this process.

PURATE Benefits and Superior Economic Advantages

The ideal program for the following cooling water applications:

- Use of lake or river water; seawater; recycled (municipal reclaimed) water as make-up water
- Contamination with ammonia or organics such as oil caused by process leaks
- · Challenges to meet NPDES discharge permits
- Systems with copper alloy metallurgies and high corrosion rates
- pH applications up to 10.0
- Production limitations due to poor heat exchanger performance
- Operational interruptions due to biocide feed pump failures and maintenance issues
- Challenges to meet Homeland Security requirements for chlorine gas storage

PURATE & ACID = CIO,





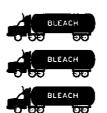
PURATE is activated with sulfuric acid (78 - 98%)

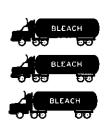
Capacity: Up to 4,000 lbs/day CIO,

(REPLACING UP TO 10,000 GALLONS/DAY OF BLEACH)

Benefits











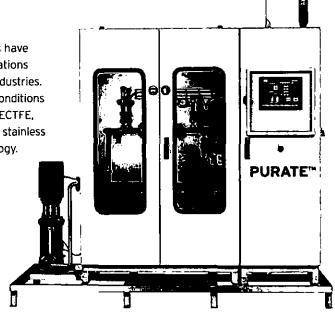


The potential impact of bleach deliveries can be significant compared to chlorine-based biocide programs:

Reliable generator operations

Reliability is a must in Heavy Industry. These systems have been proven in the field for over 15 years with installations now including the Power, Chemical, Steel and Paper industries. They are designed to perform under the harshest of conditions with best-in-class materials of construction, including ECTFE, Tantalum and PVDF. Generators are mounted on a 316 stainless steel frame and equipped with the latest PLC technology. System design features incorporate:

- · Marine-grade cabinet for saltwater applications
- Documented Process Hazard Analysis (PHA)
- · Advanced safety relays
- · Redundant interlock control logic
- 40+ point Quality Control inspection



Monitoring and innovative automation and communication technology for increased operational efficiency

The PURATE program offers a variety of options to monitor the key performance indicators of the generator and to efficiently manage the inventory of the two pre-cursors (PURATE and sulfuric acid).



LOCALLY

from the generator PLC interfaced with your DCS/PLC

REMOTELY

monitored via the performance dashboard website

In an upset situation, such as low precursor inventory or low water flow, an alert message can be sent to the local operator or the Nalco service representative for immediate corrective action. This process minimizes the risk of potential downtime caused by out-of-product situations or change of operational conditions.

Inventory Management



NORMAL



RE-ORDER



CRITICAL

24/7 DATA TRACKING



CIO₂ levels and corrosion rates with 3D TRASAR™ controller technology can be tracked 24/7 to assure peak performance and extended heat exchanger life.

- SIMPLE
- COST EFFECTIVE
- RELIABLE



Strong Support Organization Experienced Engineering/ CIO₂ Team



Engineering Resources Generator Housing and Tank Equipment/Design



System Monitoring Performance Management



On-Site CIO₂ Production Best-in-Class Equipment and Chemistry



Generator KPI On-Line Tracking/Chemical Inventory Management Automation and Efficiency Management

The PURATE program – delivering results with a positive impact on your bottom line

The benefits of the PURATE program have been validated in various case studies in multiple industries and applications.

DOCUMENTED PURATE BENEFITS	APPLICATION
Less Blocide Deliveries	
80% fewer deliveries compared to bleach	POWER PLANT
Reduction of Objectionable By-Products	
47% - 98%	POWER PLANT
100% – non-detectable	STEEL PLANT
Reduction of Corrosion Rates	
90% copper metallurgy	POWER PLANT
66% mild steel	REFINERY
Microbial Control Improvements	
> 90% reduction	REFINERY
Condenser Flow Increase	
4,400 GPM (+13%)	POWER PLANT
Condenser Inlet Temp Decrease	
0.9 - 2.7°F	POWER PLANT
Heat Exchanger Improvement	
400%	REFINERY
TCO (Total Cost of Operation) Reduction	,
> \$0.2M (-15%)	STEEL PLANT
\$1.0 - 2.6M	POWER PLANT
\$2.7M	PETROCHEMICAL PLANT

What customers say about PURATE

"The cost benefits from implementing PURATE are considered to be significant. Based on this finding, permanent installation was recommended."

Power Plant Engineer

"Even though there is no cost reduction for the biocide program, the operational benefits are very positive for us."

Power Plant Operations Manager



Naico, an Ecolab Company

North America: Headquarters – 1601 West Dien! Road • Naperville, Illinois 60563 • USA
Nalco Champion – 7705 Highway 90-A • Sugar Land, Texas 77487 • USA

Europe: Richtistrasse 7 · 8304 Wallisellen · Switzerland

Asia Pacific: 2 International Business Park • #02-20 The Strategy Tower 2 • Singapore 609930 Latin America: Av. das Nações Unidas 17.891 • 6° Andar 04795-100 • São Paulo • SP • Brazil

www.purate.com

PURATE, 3D TRASAR, Ecolab, NALCO and the logos are Trademarks of Ecolab USA Inc. ©2015 Ecolab USA Inc. All Rights Reserved Printed in USA 6/15 B-1423



Les Habel

A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chlorine Dioxide Generator

This chemical solution is for the use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this precursor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstock of 78% sulfuric acid. Please refer to the SYP-Pure Maintenance and Operations Manual to ensure proper activation.

KEEP OUT OF REACH OF CHILDREN DANGER/DELLO

"Si usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT: Sodium Chlorate (NaCIO₃) 40.0%

OTHER INGREDIENTS:	Ž 60.0%
TOTAL	100.0%

	FIRST AID	::
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.	•
IF ON SKIN OR CLOTHING IF SWALLOWED	Take off contaminated clothing. Rinse skin immediately with pienty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice. Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.	•••••
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-call a poison control center or doctor for treatment advice.	mouth if possible.
<u> </u>	container or label with you when calling a poison control center or doctor, or going for the hysicians. Probable mucosal damage may contraindicate the use of gastric lays	•

in case of exposure emergency, call (800) 424-9300

NALCO COMPANY	EPA Reg. No. 1706-242
1601 W. Diehl Road	EPA Est. No. 49620-MS-1
Naperville, IL 60563-1198 (630) 305-1000	
Net Contents	Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not det in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum. using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic org. ns. Do not discharge effluent containing a product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pessicide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites:

Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 – 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 – 5.0 ppm. Chlorine dioxide must be added to drip pan, cold, water well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary, the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine diexide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either

method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chlo. dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids (NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters.

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural hold-bod contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 – 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for non-pesticidal uses such as:

Oxidizing nutrients Reducing sludge

Eliminating odors Clarifying/precipitating organic and inorganic particles

Controlling scale & deposits Reducing TOC (Total Organic Carbon)

Controlling iron & manganese Reducing color

Controlling corrosion Destruction of odors caused by phenolic simple cyanides and sulfides by chemical.

oxidation

Storage and Disposal Statement for non-refillable & refillable containers:

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promptly

after emptying.

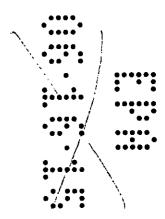
Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alteratively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration.

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal. empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

{Note to reviewer: The following is considered optional marketing language :}

- 1. Chlorine dioxide generated from Purate is an effective, broad spectrum biocide in challenging
- Chlorine dioxide generated from Purate is effective at pH greater than 7.
- 2. Chlorine dioxide generated from Purate is effective at pH between 3-10.
- 4. Chlorine dioxide generated from Purate efficacy is not impacted in the pH range of 3-10.
- Chlorine dioxide generated from Purate is more effective at lower concentrations at pHs greater than compared to chlorine and bromine gas
- 6. The efficacy of chlorine dioxide generated from Purate is unaffected by ammonia, oil organic. contamination.
- 7. Chlorine dioxide generated from Purate significantly reduces consumption by ammonia or organics loads such as oil contamination compared to chlorine-based biocide programs. Less chlorine dioxide is required to achieve similar performance
- 8. Because the use of chlorine dioxide generated from Purate allows for lower usage rates to maintain control of the system, it reduces the copper corrosion rates compared to sodium hypochlorite or other chlorine based biocides.
- 9. Copper corrosion rates can be reduced by using chlorine dioxide generated from Purate in comparison to sodium hypochlorite
- 10. Copper corrosion rates can be reduced by using chlorine dioxide generated from Purate in comparison to chlorine based products.
- 11. Copper corrosion potential can be reduced by using chlorine dioxide generated from Purate
- 12. Chlorine dioxide generated from Purate reduces corrosion potentials, helping to expand the life of assets/such as condensers and cooling towers.
- 13. Chlorine dioxide generated from Purate penetrates, removes, controls or prevents biofilm in rechaulating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 14. Chlorine dioxide generated from Purate can help remove, control or prevent biofilm in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 15. As a dissolved gas, chlorine dioxide penetrates and removes biofilm, helping to recover the performance of your heat exchangers (condenser and cooling tower).
- 16. Replacing Cl2 with chlorine dioxide generated from Purate can decrease the micro-fouling and increase the flow rate through the condenser
- 17. Replacing Cl2 with chlorine dioxide generated from Purate can decrease the micro-fouling and improve the pressure drop in the condenser

- 18. The formation of chlorinated by-p acts (THM, HAA,AOX) are minimized educed by using chlorine dioxide generated from Purate
- 19. The formation of objectionable by-products are minimized or reduced by using chlorine dioxide generated from Purate
- 20. By-products that are objectionable in discharges can be minimized or reduced using chlorine dioxide generated from Purate.
- 21. Environmentally objectionable by-products can be minimized or reduced by using chlorine dioxide generated from Purate.
- 22. Disinfection by-products in sewage and wastewater applications can be minimized by using chlorine dioxide generated from Purate as compared to chlorine gas or bromine gas
- 23. Chlorine dioxide generated from Purate minimizes the formation of chlorinated by-products (THM/HAA/AOX) helping to meet NPDES permit requirements.
- 24. Chlorine dioxide generated from Purate helps clean and loosen slime debris from recirculating cooling tower surfaces, pasteurizer, cannery or retort water surfaces, textile or pulp and paper water surfaces, impound lakes, ponds or reservoir water including industrial waste water.
- 25. Chlorine dioxide generated from Purate reduces the need for other chemicals.
- 26. Chlorine dioxide generated from Purate improves filter operation.
- 27. Chlorine dioxide generated from Purate is effective against adult and veliger forms of mussels including zebra mussels.
- 28. Addition of chlorine dioxide generated from Purate to the cooling water does not form corrosive by-products. Corrosion of copper metal surfaces is not accelerated by biocide treatment.
- 29. When used as directed chlorine dioxide generated from Purate is available for microbiological control rather than being consumed by inorganic-reducing substances in the cooling water.
- 30. Surface-active properties of Chlorine dioxide generated from Purate provide a cleansing action that minimizes under-deposit corrosion. This means improved heat transfer and lower operating costs.
- 31. Effective for use in hard waters at low use concentrations, which means that chlorine dioxide generated from Purate is a cost-effective microbiological treatment to complement water and cost savings associated with operating at high cycles of concentration.



5

Bodgroved

Liem, David

From:

Fuller, Demson

Sent:

Tuesday, October 13, 2015 1:34 PM

To:

Fane, Linda

Cc:

Kirkman, Janet; Henson, Wanda; Perry, Mark; Chao, Julie; Liem, David

Subject:

FW: Revisions for submitted amendment on Purate (EPA Reg#1706-242)=FANE

Attachments:

Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Importance:

High

Hi Linda.

I touched base with Mark and what you have proposed below is acceptable. Please provide to David a copy of the label with the revised changes and we will move forward in processing it for approval.

Thanks!

Demson

From: Fane, Linda [mailto:lfane@nalco.com]
Sent: Monday, October 12, 2015 11:27 PM
To: Fuller, Demson; Henson, Wanda

Cc: Kirkman, Janet

Subject: Revisions for submitted amendment on Purate (EPA Reg#1706-242)=FANE

Importance: High

Hi Demson and Wanda,

Based on our discussion on 10/8/15, we've modified the optional marketing claims for the Purate label amendment that is currently in process (see claims 1-28 below). The changes include:

- We removed the term "broad spectrum" from the previous claim #1 and replaced in with a separate claim for each approved use site and corresponding target organism. So claim #1 is now replaced with claims #1-7
- For the pH claims, we've removed the Purate document from the Nalco/Ecolab website and will rewrite the literature so that the pH section of the document does not compare CIO2 from Purate with other Als.
- We've rewritten the claims to add more clarity.
- Regarding the meeting with Emily Mitchell, Mark Perry and John Wood on 10/9/15 to discuss biofilm claims: We understand that the final decision on the use of the term "biofilm" for "slime" in an industrial product has not yet been made. So we have updated the claims to remove the term "biofilm" and have replaced it with the term "microbial slime".

I've highlighted in yellow the cla...s where we have made revisices to the text. Those highlighted in blue are now acceptable based on Nalco's removal and eventual modification of the Purate literature on our website. Those that are not highlighted were approved by EPA based on the information provided by David Liem on 9/25/15 (attached).

We'd appreciate it if you would review these change to confirm that they are now acceptable. Based on your feedback, I can provide EPA a clean/updated master label with the claims.

- 1. Chlorine dioxide is an effective biocide against microbial and algal slime in challenging water conditions in recirculating cooling water towers.
- 2. Chlorine dioxide is an effective biocide against adult mollusks in challenging water conditions in once-through cooling water towers.
- 3. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in textile processing water.
- 4. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in paper process water.
- 5. Chlorine dioxide is an effective biocide against bacterial slime in challenging water conditions in pasteurizer [, cannery] [and] [, retort water systems].
- 6. Chlorine dioxide is an effective biocide against microorganisms and algae that cause unacceptable odors and slime in challenging water conditions in [impound lake water] [,] [pond water] [reservoir water] [industrial waste water]
- 7. Chlorine dioxide is an effective biocide against slime caused by microbial populations in challenging water conditions in [gas and oil recovery injection water] [and] [fracturing system fluids]
- 3. Chlorine divide generated from Purate is effective at pH greater than 7.
- 9. Chlorine dioxide generated from Purate is effective at pH between 3-10.
- 10. Chlorine dioxide cenerated from Purate efficacy is not impacted in the pH range of 3-10.
- 11. The efficacy of chlorine dioxide generated from Purate is unaffected by ammonia, oil or organic contamination in cooling water or drinking water systems.
- 12. Because the use of chlorine dioxide generated from Purate allows for lower usage rates to maintain control of the system, it reduces the copper corrosion rates
- 13. Copper corrosion potential can be reduced by using chlorine dioxide generated from Purate
- 14. Chlorine dioxide generated from Purate reduces corrosion potentials, helping to expand the life of assets such as condensers and cooling towers.
- 15. Chlorine dioxide generated from Purate penetrates, removes, controls or prevents microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 16. Chlorine dioxide generated from Purate can help remove, control or prevent microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 17. As a dissolved gas, chlorine dioxide penetrates and removes microbial slime, helping to recover the performance of your heat exchangers (condenser and cooling tower).
- 18. Replacing CI2 with chlorine dioxide generated from Purate can decrease the micro-fouling and increase the flow rate through the condenser

- 19. Replacing Cl2 with chlorine dice generated from Purate can decree the micro-fouling and improve the pressure drop in the condenser
- 20 Chlorine dioxide generated from Purate helps clean and loosen slime debris from recirculating cooling tower surfaces, pasteurizer, cannery or retort water surfaces, textile or pulp and paper water surfaces, impound lakes, ponds or reservoir water including industrial waste water.
- 21. Chlorine dioxide generated from Purate reduces the need for corrosion inhibiting chemicals in cooling water applications
- 22. Chlorine dioxide generated from Purate improves filter operation.
- 23. Chlorine dioxide generated from Purate is effective against adult and veliger forms of mussels including zebra mussels.
- 24. Addition of chlorine dioxide generated from Purate to the cooling water does not form corrosive by-products. Corrosion of copper metal surfaces is not accelerated by biocide treatment.
- 25. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in cooling water rather than being consumed by inorganic-reducing substances in the cooling water.
- 26. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in drinking water rather than being consumed by inorganic-reducing substances in the drinking water.
- 27. Surface-active properties of Chlorine dioxide generated from Purate provide a cleansing action that minimizes under-deposit corrosion. This means improved heat transfer and lower operating costs.
- 28. Effective for use in hard waters at low use concentrations, which means that chlorine dioxide generated from Purate is a cost-effective microbiological treatment in cooling water to complement water and cost savings associated with operating at high cycles of concentration.

Thank you for your assistance, 'Linda

Linda J. Fane

Senior Manager GLOBAL REGULATORY AFFAIRS

NALCO| An Ecolab Company 1601 W-DIEHL RD, NAPERVILLE, IL 60563

T 630 305 1455 F 630 305 2985 E <u>ifane@nalco.com</u>

From: Fuller, Demson [mailto:Fuller.Demson@epa.gov]

Sent: Thursday, October 08, 2015 10:13 AM

To: Fuller, Demson; Fane, Linda **Cc:** Kirkman, Janet; Henson, Wanda

Subject: RE: Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Hi Linda,

In preparation for our meeting at 11:30 EST, I wanted to give you some feedback on bullet on "by-product" claims. I followed up with our risk assessment team regarding this question. You will need to provide information to support the

claim that chlorine dioxide is producing the products in negligible amounts. You may vide public literature that supports this claim or conduct a study on your own. This information is non-guideline and is not normally required to support a pesticide product application but is necessary to support the above claim.

We can discussion further during our call. Thanks!

Demson

From: Fuller, Demson [mailto:Fuller.Demson@epa.gov]

Sent: Wednesday, September 30, 2015 4:27 PM

To: Fane, Linda

Cc: Kirkman, Janet; Henson, Wanda

Subject: RE: Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Hi Linda,

Sorry I missed your message from this past Monday. The due date for this action is 10/14. Are you available next Thursday to chat? I can set up a half hour meeting from 11:30-12? Is that okay?

Demson

From: Fane, Linda [mailto:lfane@nalco.com]
Sent: Monday, September 28, 2015 5:51 PM

To: Fuller, Demson Cc: Kirkman, Janet

Subject: FW: Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Importance: High

Hi Demson,

Thank you for calling today and informing me to send Nalco/Ecolab questions regarding the label amendment review to your attention. For your reference, I've attached a copy of the label that was submitted with the optional marketing language highlighted in yellow.

I wanted to send you my initial questions so that you can review them prior to a phone conversation.

Timing:

1. The first question we have is how much time does Nalco/Ecolab have to respond to EPA's comments regarding this label amendment? We want to make sure that we respond in time to get the marketing claims that are acceptable on a revised label. We want to avoid a complete rejection of the amendment submission.

Biofilm and Slime Claims:

1. It is our understanding that for non-public health products (such as Purate 1706-242), EPA allows the use of the term "biofilm" in claims as long as the term

- "slime" is in the claim that on the EPA approved label.
 3 dates back to the 2008 presentation by the AD Director where clarification on biofilm claims was provided.
- 2. Claims 13, 14 and 15 use the term "biofilm" in place of "slime". Slime is included in the use sites that are on the EPA approved label. We do not make any public health claims, so we do not understand why these claims are not acceptable.

Byproduct claims:

- 1. We'd like to understand what specifically would need to be provided by EPA to allow the 18-21 & 23 claims. Mr. Liem said that data "may" need to be provided (see Mr. Liem's comments in red below). Can you provide additional information on what data is needed and if we are required to submit it for review?
- 2. Claim Nos. 18-21& 23: The claims you are proposing to minimize or reduce (i.e., by-products, THM, HAA, AOX) may need to be further substantiated with data and reviewed by our science branches.

pH Claims:

1. We'd like to understand how claims 2, 3 and 4 (system pH) are tied to public health claims. This is not clear to us.

Demson, can we discuss this further via telephone? We'd like to provide EPA with a clean copy of the Purate label with as many of the claims that can be approved at this time. But before we do this, we need more information on why some of the claims are unacceptable and what revisions we can make to the claim language to make them acceptable.

Thank you,

Linda J. Fane

Senior Manager GLOBAL REGULATORY AFFAIRS

NALCO! An Ecolab Company 1601 W DIEHL RD, NAPERVILLE, IL 60563

T 630 305 1455 F 630 305 2985 E Ifane@nalco.com

From: Fane, Linda

Sent: Monday, September 28, 2015 8:31 AM

To: 'Liem, David'

Subject: RE: Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Importance: High

Thank you for sending this information David. I'm coordinating with the business so we can review the information and respond.

What is our deadline for sendin revised label with the update narketing text to you?

We may have questions or need clarification. I will call you to discuss these over the phone.

Thanks again and have a great day!

Linda J. Fane

Senior Manager
GLOBAL REGULATORY AFFAIRS

NALCOI An Ecolab Company 1601 W DIEHL RD, NAPERVILLE, IL 60563 T 630 305 1455 F 630 305 2985 E <u>Ifane@naico.com</u>

From: Liem, David [mailto:Liem.David@epa.gov]
Sent: Friday, September 25, 2015 1:55 PM

To: Fane, Linda

Subject: Comments on submitted amendment on Purate (EPA Reg#1706-242)=FANE

Importance: High

Dear Ms Fane

After reviewing your submitted amendment for Purate (EPA Reg#1706-242) to add optional marketing text, the following marketing claims were not acceptable and must be removed because they are false and misleading, per 40CFR156(10)(5). (Also refer to PR Notice 93-6 –False and misleading statement and the OPP Label Review Manual (Chapter's 4 and 12), and DIS/TSS#1 and Efficacy#810:

- Claim No. 1: The "broad spectrum biocide" claim must be removed. The claim is comprehensive and can be construed as effective against public health organisms. No efficacy data were submitted to support these claims
- Claim Nos. 2 5: Based on your posted website, the pH claims correlate with public health claims (http://www.ecolab.com/~/media/Ecolab/Ecolab/20Home/Documents/DocumentLibrary/Brochures/Na lco%20WPS/B1423PurateOnSiteChlorideDioxideGeneration.ashx). This may imply that the product has a unique characteristic because of its composition
- Claim No. 6: The claim is comprehensive and can be construed as effective against public health organisms. Alternatively, you can qualify "ammonia or oil organic contamination" with non-public health claims (e.g., oil organic contamination found in gas and oil recovery injection water)
- Claim Nos. 7- 10: The claims are comparative. In addition, for Claim # 7, the claim is comprehensive (see comment #6)
- Claim Nos. 13-15: No efficacy data were submitted to support "biofilm" claims. The claims must be removed or, alternatively, "biofilm" must be qualified to "slime-forming bacteria"

- Claim Nos. 18-21& 23: The clain. ou are proposing to minimize or reduce...e., by-products, THM, HAA, AOX) may need to be further substantiated with data and reviewed by our science branches.
- Claim No. 22: The claim is comprehensive and can be construed as effective against public health organisms. No efficacy data were submitted to support the claims. In addition, the claim is comparative
- Claim No. 25: The claim is comparative
- Claim Nos. 29 & 31 The claims are comprehensive and can be construed as effective against public health organisms.

No efficacy data were submitted to support these claims

Please resubmit you updated amendment, and if you have further questions please don't hesitate to contact me.

David Liem
Antimicrobial Division
Office of Pesticide Programs
Environmental Protection Agency
703-305-1284
Liem.david@epa.gov



A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chlorine Dioxide Generator

This chemical solution is for the use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this precursor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstock of 78% sulfuric acid. Please refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

	FIRST AID
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes.
·	Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.
	Call a poison control center or doctor for treatment advice.
IF ON SKIN OF	Take off contaminated clothing.
CLOTHING	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor immediately for treatment advice.
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice.
	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to do so by a poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh air.
	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
	Call a poison control center or doctor for treatment advice.
Have the product	container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO P	HYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

In case of exposure emergency, call (800) 424-9300

NALCO COMPANY	:EPA Reg. No. 1706-242
1601 W. Diehl Road	:EPA Est. No. 49620-MS-1
Naperville, IL 60563-1198	
(630) 305-1000	
Net Contents	Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eves or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic orga s. Do not discharge effluent containing product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites:

Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 - 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (veiligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, coldwater well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either

method of application must maintain a residence concentration of 0.1 - 5.0 ppm of chlored lioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

Impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids (NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters.

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 - 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for non-pesticidal uses such as:

Oxidizing nutrients Reducing sludge

Eliminating odors Clarifying/precipitating organic and inorganic particles

Controlling scale & deposits Reducing TOC (Total Organic Carbon)

Controlling iron & manganese Reducing color

Controlling corrosion Destruction of odors caused by phenolic simple cyanides and sulfides by chemical

oxidation

Storage and Disposal Statement for non-refillable & refillable containers:

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promptly

after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alteratively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration.

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

{Note to reviewer: The following is considered optional marketing language :}

- 1. Chlorine dioxide is an effective biocide against microbial and algal slime in challenging water conditions in recirculating cooling water towers.
- 2. Chlorine dioxide is an effective biocide against adult mollusks in challenging water conditions in oncethrough cooling water towers.
- 3. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in textile processing water.
- 4. Chlorine dioxide is an effective biocide against microorganisms that form slime in challenging water conditions in paper process water.
- 5. Chlorine dioxide is an effective biocide against bacterial slime in challenging water conditions in pasteurizer [, cannery] [and] [, retort water systems].
- 6. Chlorine dioxide is an effective biocide against microorganisms and algae that cause unacceptable odors and slime in challenging water conditions in [impound lake water] [,] [pond water] [reservoir water] [industrial waste water]
- 7. Chlorine dioxide is an effective biocide against slime caused by microbial populations in challenging water conditions in [gas and oil recovery injection water] [and] [fracturing system fluids]
- 8. Chlorine dioxide generated from Purate is effective at pH greater than 7.
- 9. Chlorine dioxide generated from Purate is effective at pH between 3-10.
- 10. Chlorine dioxide generated from Purate efficacy is not impacted in the pH range of 3-10.
- 11. The efficacy of chlorine dioxide generated from Purate is unaffected by ammonia, oil or organic contamination in cooling water or drinking water systems.
- 12. Because the use of chlorine dioxide generated from Purate allows for lower usage rates to maintain control of the system, it reduces the copper corrosion rates
- 13. Copper corrosion potential can be reduced by using chlorine dioxide generated from Purate
- 14. Chlorine dioxide generated from Purate reduces corrosion potentials, helping to expand the life of assets such as condensers and cooling towers.
- 15. Chlorine dioxide generated from Purate penetrates, removes, controls or prevents microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 16. Chlorine dioxide generated from Purate can help remove, control or prevent microbial slime in recirculating cooling towers, pasteurizer, cannery or retort water, textile or pulp and paper water, impound lakes, ponds or reservoir water including industrial waste water.
- 17. As a dissolved gas, chlorine dioxide penetrates and removes microbial slime, helping to recover the performance of your heat exchangers (condenser and cooling tower).

- 18. Replacing Cl2 with chlorine dioxic penerated from Purate can decrease to nicro-fouling and increase the flow rate through the condenser
- 19. Replacing Cl2 with chlorine dioxide generated from Purate can decrease the micro-fouling and improve the pressure drop in the condenser
- 20. Chlorine dioxide generated from Purate helps clean and loosen slime debris from recirculating cooling tower surfaces, pasteurizer, cannery or retort water surfaces, textile or pulp and paper water surfaces, impound lakes, ponds or reservoir water including industrial waste water.
- 21. Chlorine dioxide generated from Purate reduces the need for corrosion inhibiting chemicals in cooling water applications
- 22. Chlorine dioxide generated from Purate improves filter operation.
- 23. Chlorine dioxide generated from Purate is effective against adult and veliger forms of mussels including zebra mussels.
- 24. Addition of chlorine dioxide generated from Purate to the cooling water does not form corrosive byproducts. Corrosion of copper metal surfaces is not accelerated by biocide treatment.
- 25. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in cooling water rather than being consumed by inorganic-reducing substances in the cooling water.
- 26. When used as directed, chlorine dioxide generated from Purate is available for microbiological control in drinking water rather than being consumed by inorganic-reducing substances in the drinking water.
- 27. Surface-active properties of Chlorine dioxide generated from Purate provide a cleansing action that minimizes under-deposit corrosion. This means improved heat transfer and lower operating costs.
- 28. Effective for use in hard waters at low use concentrations, which means that chlorine dioxide generated from Purate is a cost-effective microbiological treatment in cooling water to complement water and cost savings associated with operating at high cycles of concentration.

PROCESSING REQUEST

Reg. #: 1706-242	Decision #: 505846
Description: Alternate Brand	Name per PRN 98-10.
-	
Material Available Elect	ronically (see PPLS):
☐ Electronic Label/Letter Dated:	
Other:	
Material Sent (see jacket):	÷
Stamped Label/Letter Dated:	
XD Notification Dated: June 17	, 2015
☐ New CSF(s) Dated:	
Other:	
and clipped together, NOT STAPLED. The materials to staff in the Information Servi	, please file materials in a new jacket and
Reviewer: Killian Swift	
Division: Antimicrobials Division	ı
Phone: 703-308-6346	Date: June 17, 2015



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

June 17, 2015

Ms. Linda J. Fane

Senior Manager: Regulatory Affairs

Nalco, an Ecolab Company 1601 West Diehl Road Naperville, IL 60563

Subject:

Notification per PRN 98-10 - Alternate Brand Name

Product Name: PurateTM

EPA Registration Number: 1706-242 Application Date: May 11, 2015 Decision Number: 505846

{

Dear Ms. Fane:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The alternate brand name PurateDW has been added to the product record.

If you have any questions, you may contact Killian Swift at 703-308-6346 or via email at Swift.Killian@epa.gov.

Sincerely,

Demson Fuller, Product Manager 32 Regulatory Management Branch II Antimicrobials Division (7510P)

Office of Pesticide Programs

RISK ASSIGNMENT FORM

Antimicrobial Division/Regulatory Management Branch II

Α	Completed by Product Manager										
PRO	PRODUCT REVIEWER: Swift								TEAM	32	
Тур	e of Action	1:						,	EPA File	Symbol/Reg N	lo.
No	Notification							1706-	242		
Decision No. 505846 Submission No. 968342 PRIA					RIA Actio	RIA Action Code:					
FQ	FQPA Action Code: 332			Non-FQPA A	ction Code:			PRIA F	EE AMOU	INT:	
				MONTH	MONTH DAY			_8;-	YEAR		
APPLICATION DATE								2014			
EP <i>F</i>	A PIN DAT	E								2014	
DAT	TE SENT T	O SCIENCE									
	TE RECEIV	ED FROM		·					<u> </u>	,	
DAT	TE DUE TO) PM									
	TE DUE OI ENCY	UT OF THE	-	06		11				2015	
Typ Data	e of a:	PSB Product		PSB Acute Toxicology	PSB Efficacy	RASSI Environme Fate		Eco	ASSB ological ffects	RASSB Chronic Toxicology	RASSB Exposure/ Residue

. €-CSF(S)

€-DATA

€-OTHERS

ATTACHMENTS:

-LABELING

S:	968342	Milestone Email:				
Regulatory Type:	Product Registration	n - Section 3	Resubm	ission: OYe	es 🖲 No	Print Letter
Application Type:	Notification	_	Fee For Se	ervice: Ye	es 🛛 No	Enter More Information
Company:	1706 NALCO C	COMPANY	V	<u> </u>	U	Tracking
Risk Manager:	Antimicrobials Divis	ion, Risk Management Tea	ım 32	- · · · [▼.	
Product #:	1706-242 Pr	oduct Name: PURATE				
Override#:						
Me Too Section3:	. <u>-</u>	Me Too Product Name:				
Application Da	ate: 11-May-2015	OPP Rec	ovd Date: 12-May-20)15 [[[Receipt Cont	ent
Front End Da	ite: 12-May-2015	Risk Manager S	end Date: 12-May-20	==	Other	Cover letter.
FFS Due Da	ite:	Negotiated I	Oue Date:		İ	
OPP Target Da	te:				4 111	
Fast Track: Receipt Descr	ription:	New Ingredient:				View/Edit
Notification (of ABN per PRN 98-	10.			gredient est Date:	
					gre die nt	
					.,,	

K5D



1 630 305 1455 **2** 630 305 2945

Linda Fane
Senior Manager
1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
Ifane@nalco.com

May 11, 2015

Document Processing Desk (NOTIFY)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Demson Fuller PM-32

Subject: ABN Notification

Product: Purate (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco Company is submitting a notification to add an alternate brand name to our registration under 1706-242. The alternate brand name is **PurateDW**.

In support of this notification I have included the EPA Application Form (EPA Form 8570-1).

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J. Fane

Senior Manager/Regulatory Affairs

rieuse read instructions	on reverse before c	ng form.	For	m Approv	4B No. 2070	-0060, Approval expires 2-28-95		
•		United States			Registratio	OPP Identifier Number		
EPA	Environme	ntal Protect	ion Agency	F	Amendme	1		
		shington, DC 20	~ •	<u> </u>	Other			
		Application	n for Pesticide -	Section I				
1. Company/Product Nu	ımber		2. EPA Prod	uct Manager	r	3. Proposed Classification		
1706-242			Demson Fu	ller		None Restricted		
4. Company/Product (N	ame)		PM#					
Purate TM			32					
Name and Address of		Code)	6. Expedit	ed Review.	In accordance	with FIFRA Section 3(c)(3)		
Nalco, an Ecolab Con			(b)(i), my p	roduct is si	milar or identica	ıl in composition and		
1601 West Diehl Road	i		labeling to:					
Naperville, IL 60563			EPA Reg. 1	Nos.				
	Check if this is a new ad	ldress	Product Na	mes				
			Section - II					
Amendment - Exp	lain balaw		F:	al printed la	bels in response to	· · · · · · · · · · · · · · · · · · ·		
				ency letter d	_	O		
Resubmission in re	sponse to Agency letter	dated		•				
Notification – Expl	ain Below		<u></u> "₩	le Too" App	lication			
Notification – Explain Below. Other – Explain Below.								
Explanation: Use additional page(s) if necessary. (For Section I and Section II.)								
Explanation: Use additional page(s) if necessary. (For Section I and Section II.)								
Notification of an a	lternate brand na	me (ABN) for	this registration.	The alter	nate brand na	me is PurateDW.		
Notification of an alternate brand name (ABN) for this registration. The alternate brand name is PurateDW. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulation at 40 CRF 152.46, and no other changes have been made to								
						1001 to willfully make any 0 and 40 CFR 152.46, this		
product may be in violat								
product may be in violat	ion of this and thia	be subject to en	iorecinent action and per	iunics under	Sections 12 and 1	7 01 11 10 L		
_								
i		•	Section - III					
4 34			Section - III					
1. Material This Produ		n:		ina	2 Times	of Container		
Child-Resistant	Unit Packaging	n:	Water Soluble Packag	ing	I — I	of Container		
Child-Resistant Packaging	Unit Packaging Yes	n:	Water Soluble Packag	ing	Meta	ıl		
Child-Resistant Packaging Yes	Unit Packaging	n:	Water Soluble Packag	ging	I — I	ıl		
Child-Resistant Packaging	Unit Packaging Yes No		Water Soluble Packag Yes No		Meta	il ic		
Child-Resistant Packaging Yes No	Unit Packaging Yes No If "Yes"	No. per	Water Soluble Packag ☐ Yes ☐ No If "Yes"	No. per	Meta Plast Glass	ıl ic s		
Child-Resistant Packaging Yes No * Certification	Unit Packaging Yes No		Water Soluble Packag Yes No		Meta Meta Plast Glass Pape	ıl ic s π		
Child-Resistant Packaging Yes No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per Container	Water Soluble Packag Yes No If "Yes" Packaging wgt.	No. per	Meta Plast Glass Pape Othe	ul ic s π π (Specify) <u>Bulk</u>		
Child-Resistant Packaging Yes No * Certification	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per Container 4. Size(s) Reta	Water Soluble Packag Yes No If "Yes" Packaging wgt.	No. per	Meta Plast Glass Pape Othe	al ic s r r (Specify) <u>Bulk</u> n of Label Directions		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per Container	Water Soluble Packag Yes No If "Yes" Packaging wgt.	No. per	Meta Plast Glass Pape Othe	al ic s r r (Specify) <u>Bulk</u> n of Label Directions		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per Container 4. Size(s) Reta	Water Soluble Packag Yes No If "Yes" Packaging wgt.	No. per	Meta Plast Glass Pape Othe	al ric r (Specify) <u>Bulk</u> on of Label Directions abel		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plasti	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La	al ic s r r (Specify) <u>Bulk</u> n of Label Directions		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plasti	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk	No. per Containe	Meta Plast Glass Pape Othe	al ric r (Specify) <u>Bulk</u> on of Label Directions abel		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La	al ric r (Specify) <u>Bulk</u> on of Label Directions abel		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plasti	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La	al ric r (Specify) <u>Bulk</u> on of Label Directions abel		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La	al ric r (Specify) <u>Bulk</u> on of Label Directions abel		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued Section - IV	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La Other	al ic ic ic is it		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Rett 311 gal. plasti Lithogra Paper Gl Stenciled	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued Section - IV	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other Cessary, to process	al ic ic ic is it		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lai 1. Contact Point (Comp.	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Rett 311 gal. plasti Lithogra Paper Gl Stenciled	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued Section - IV on of individual to be contained to the	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other Cessary, to process	al ic ic s r r r (Specify) Bulk on of Label Directions abel abeling accompanying product		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lai 1. Contact Point (Comp.	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Rett 311 gal. plasti Lithogra Paper Gl Stenciled	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container c tote, bulk ph ued Section - IV on of individual to be contained to the	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other cessary, to proces Tele	al ic ic s r r r (Specify) Bulk on of Label Directions abel abeling accompanying product		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp. Name)	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Rett 311 gal. plasti Lithogra Paper Gl Stenciled	Water Soluble Packag Yes No If "Yes" Packaging wgt. Il Container c tote, bulk Section - IV on of individual to be contitle Senior Manager, Regul	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other cessary, to proces Tele	al ic		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lal 1. Contact Point (Comp. Name Linda J. Fane	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled V for identification Certifica	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container to tote, bulk Section - IV In of individual to be contitle enior Manager, Regulation	No. per Containe	Meta Plast Glass The Pape Othe 5. Locatio On La On La Other Cessary, to process Tele irs 630-	al dic sections are respectively. Bulk on of Label Directions abel abeling accompanying product as this application) The phone No. (Include Area Code) 305-1455		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lal 1. Contact Point (Comp. Name Linda J. Fane	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product blete items directly below tements I have made on	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled v for identification Certification this form and all	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container to tote, bulk Section - IV In of individual to be contitle denior Manager, Regulation attachments thereto are	No. per Containe	Meta Plast Glass The Pape Othe 5. Locatio On La On La Other Cessary, to process Tele irs 630-	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lal 1. Contact Point (Comp. Name Linda J. Fane	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product blete items directly below tements I have made on ny knowingly false or many	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled v for identification Certification this form and all	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container to tote, bulk Section - IV In of individual to be contitle enior Manager, Regulation	No. per Containe	Meta Plast Glass The Pape Othe 5. Locatio On La On La Other Cessary, to process Tele irs 630-	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label Label 1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable law 2. Signature	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product tements I have made on my knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled v for identification Certification this form and all isleading statement	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container to tote, bulk Section - IV In of individual to be contitle denior Manager, Regulation attachments thereto are	No. per Containe	Meta Plast Glass The Pape Othe 5. Locatio On La On La Other Cessary, to process Tele irs 630-	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label Label 1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable law 2. Signature	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product tements I have made on my knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled v for identification Certification this form and all isleading statement	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container to tote, bulk ph ued Section - IV on of individual to be contitle denior Manager, Regulation attachments thereto are ent may be punishable by	No. per Containe	Meta Plast Glass The Pape Othe 5. Locatio On La On La Other Cessary, to process Tele irs 630-	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label Label 1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable law 2. Signature	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product blete items directly below tements I have made on ny knowingly false or many	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled V for identification Certification this form and all isleading statem	Water Soluble Packag Yes No If "Yes" Packaging wgt. iil Container to tote, bulk ph ued Section - IV on of individual to be contitle denior Manager, Regulation attachments thereto are ent may be punishable by	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other cessary, to process Tele irs 630- te and complete. I	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label Label 1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable law 2. Signature	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product tements I have made on my knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled V for identification Certification this form and all isleading statements	Water Soluble Package Yes No If "Yes" Packaging wgt. Il Container cotote, bulk Section - IV In of individual to be contitle Itemior Manager, Regulation attachments thereto are ent may be punishable by Title	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other cessary, to process Tele irs 630- te and complete. I	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		
Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Cont Label 6. Manner in Which Lab 1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under appricable law 2. Signature	Unit Packaging Yes No If "Yes" Unit Packaging wgt. ents Information Container pel is Affixed to Product tements I have made on my knowingly false or may	No. per Container 4. Size(s) Reta 311 gal. plasti Lithogra Paper Gl Stenciled V for identification Certification this form and all isleading statem 3 S	Water Soluble Package Yes No If "Yes" Packaging wgt. Il Container cotote, bulk Phonof individual to be contitle In the senior Manager, Regulation attachments thereto are continued by the punishable by the senior Manager, Regulation Title In the senior Manager, Regulation attachments thereto are continued by the punishable by the senior Manager, Regulation attachments thereto are continued by the senior Manager, Regulation attachments thereto are continued by the senior Manager, Regulation attachments thereto are continued by the senior Manager, Regulation attachments thereto are continued by the senior Manager, Regulation attachments thereto are continued by the senior Manager, Regulation attachments the senior Manager attachments the senior Manager attachments the senior Manager attachments the senior Manager attachments th	No. per Containe	Meta Plast Glass Pape Othe 5. Locatio On La On La Other cessary, to process Tele irs 630- te and complete. I	al dic sections of the companying product states application) The companying product states application) The companying product of the compa		

Material Sent for Data Extraction

Reg. #
Description: Aneidmad
Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated
Notification Dated
New CSF(s) Dated
Other:
☐ Decision #:
Other Action/Comments: Letter was date 17/3/14.
File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring down to the (ISC). For further information please call 703-605-0716.
Reviewer: DAVID LIEM
Phone: 305-1284 Division: AD
Date: 12/4/14.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

Linda J. Fane Senior Manager 1601 West Diehl Rd. Naperville, IL 60563-1198

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

DEC - 3 2014

Subject:

Purate

EPA Registration No. 1706-242 Application Dated: October 17, 2014 Receipt Dated: October 20, 2014

Dear Ms. Fane:

This acknowledges the receipt of your Amendment application dated October 17, 2014 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended.

Submission and Proposed Changes

Update the company name, address and registration number due to registration transfer for the Basic and Alternate#1 Formulation CSFs and update the vendor information for the Basic Formulation CSF (dated 10/17/14 pin punch 10/20/14). In addition add an Alternate #2 Formulation CSF for Nalco PurateTM product (EPA Reg# 1706-242).

General Comment:

Based on the review of the materials submitted, the updated Basic and Alternate Formulation #1 CSFs dated 10/17/14 (pin punch 10/20/14) and the addition of an Alternate Formulation #2 CSF dated 10/17/14 (pin punch 10/20/14) are acceptable and these CFSs supersede all previously submitted CSFs.

This amendment and this letter have been inserted in your file for future reference.

If you have further question on this letter, please contact David Liem by email at liem.david@epa.gov or call at 703-305-1284.

Sincerely

Product Manager (32)

Regulatory Management Branch II Antimicrobial Division (7510P)



6 630 305 1455 **6** 630 305 2945

Linda Fane Senior Manager 1601 W. DIEHL ROAD NAPERVILLE, IL 60563-1198 Ifane@nalco.com

October 17, 2014

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Demson Fuller PM-32

Subject: CSF Amendment

Product: Purate (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco is submitting a CSF amendment for Purate (EPA Reg. No. 1706-242) to:

- 1. Update the company name, address and registration number due to registration transfer for the Basic and ALT1 formulas
- 2. Update the vendor information for the Basic formula
- 3. Add ALT2 formulation

In support of this label amendment, please find the following:

- 1. EPA Application Form 8570-1
- 2. Revised Basic and ALT1 formulas with the updated language highlighted in yellow
- 3. New ALT2 formulation
- 4. Previous EPA approved CSF for Basic dated July 30, 2009
- 5. Pervious EPA approved CSF for ALT1 dated September 16, 2013

If you have any questions, please contact me at 630-305-1455.

Linda J. Fane

Regards,

Senior Manager/Regulatory Affairs



1 630 305 1455 **2** 630 305 2945

Linda Fane
Senior Manager
1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
Ifane@nalco.com

October 17, 2014

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Demson Fuller PM-32

Subject: **CSF Amendment**

Product: Purate (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco is submitting a CSF amendment for Purate (EPA Reg. No. 1706-242) to:

- 1. Update the company name, address and registration number due to registration transfer for the Basic and ALT1 formulas
- 2. Update the vendor information for the Basic formula
- 3. Add ALT2 formulation

In support of this label amendment, please find the following:

- 1. EPA Application Form 8570-1
- 2. Revised Basic and ALT1 formulas with the updated language highlighted in yellow
- 3. New ALT2 formulation
- 4. Previous EPA approved CSF for Basic dated July 30, 2009
- 5. Pervious EPA approved CSF for ALT1 dated September 16, 2013

If you have any questions, please contact me at 630-305-1455.

Regards,

In Linda J. Fane
Senior Manager/Regulatory Affairs

60



UNITEL ATES ENVIRONMENTAL PROTECTIO. WASHINGTON, D.C. 20460

ENCY

October 22, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. RHONDA SCHULZ ECOLAB, INC. NALCO COMPANY A SUBSIDIARY OF ECOLAB, INC. 370 N. WABASHA STREET ST. PAUL, MN 55102-1390

PRODUCT NAME: PURATE

COMPANY NAME: NALCO COMPANY

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 1706-242 EPA RECEIPT DATE: 10/20/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 32, at (703) 308-6427.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



Fee for Service

{959314+~

This package includes the following	for Division
New RegistrationAmendmentStudies? □ Fee Waiver?	● AD ○ BPPD ○ RD
□ volpay % Reduction:	Risk Mgr. 32
Receipt No. S-	959314
EPA File Symbol/Reg. No.	1706-242
Pin-Punch Date:	10/20/2014
This item is NOT subject t	o FFS action.
Action Code:	Parent/Child Decisions:
Requested:	·
Granted:	
Amount Due: \$	
☐ Inert Cleared for Intended Use	Uncleared Inert in Product
Reviewer: James Maines	Date: <u>/ 0/2///</u> /
Remarks:	- 10-1

Please read instructions	on reverse before comp	letir* *m.		Form Approve	ed. Or 2	2070-0060	, Approval expires 2-28-95		
,		U. States			∏ K ∴ra	ation	OPP Identifier Number		
EPA	Environme	ntal Protecti	on Agency	Ī	Amendi	ment			
		shington, DC 204	•	Ť	Other				
<u></u>			n for Pesticid	e Section					
1 Company/Deadust No		Application		Product Manage		2 0	Proposed Classification		
 Company/Product Nu 1706-242 	imber		I	n Fuller	er				
4. Company/Product (N	ame)		PM#	M T WIIEI		$\neg riangle$	None Restricted		
Purate TM			32						
5. Name and Address of	Applicant (Include ZIP	Code)	6. Ex	edited Review	v. In accorda	nce with 1	FIFRA Section 3(c)(3)		
Nalco, an Ecolab Com	pany						omposition and		
1601 West Diehl Road	i		labelin	g to:					
Naperville, IL 60563			EPA I	Reg. Nos.					
П.	CI I (CII)	t s .							
<u></u> ,	Check if this is a new ad	dress		ct Names	· · · · · · · · · · · · · · · · · · ·				
Section - II									
Amendment – Expl	ain below.			Final printed 1	labels in respor	nse to			
		datad	_	Agency letter					
	sponse to Agency letter	dated		"Me Too" Ap	mlication				
Notification – Expl	ain Below.		<u></u>	≒	-				
Other – Explain Below. Explanation: Use additional page(s) if necessary. (For Section I and Section II.)									
Explanation: Use add	litional page(s) if necess	ary. (For Section	I and Section II.)						
CSF Amendment to	- •								
	he company name, ac			lue to registration	on transfer for	r Basic ar	nd ALT 1		
	he vendor name and		ic						
3. Addition	of alternate CSF - AL	.12							
			Section - III	ī					
1 Material This Bunds	at Will De Beeleered L		Section - III						
1. Material This Produ Child-Resistant	Unit Packaging	1;	Water Soluble P	Packaging	12 T	ype of Cor	ntainer		
Packaging	Yes		Yes	uving.ii.g		Metal	111111111111111111111111111111111111111		
Yes					· · · · · · ·	Plastic			
No	⊠ No		⊠ No		1 ==				
	If "Yes"	No. per	If "Yes"	No. per	=	Glass			
* Certification	Unit Packaging wgt.	Container	Packaging wgt.	Contain	ıer LLI ¹	Рарег			
must be submitted			1 23		··· 🖂 (Other (Spe	cify) <u>Bulk</u>		
3. Location of Net Cont	ents Information	4. Size(s) Reta	il Container				abel Directions		
		311 gal. plastic			Mo				
Label 🖂	Container	311 gal. plastic				n Label			
	Container		tote, bulk			n Label	g accompanying product		
6. Manner in Which Lal	<u> </u>	Lithograp	tote, bulk			n Label			
	<u> </u>		tote, bulk			n Label			
	<u> </u>	Lithograp	tote, bulk bh ued			n Label			
	<u> </u>	Lithograp	tote, bulk bh ued			n Label			
	pel is Affixed to Product	Lithograp Paper Glu Stenciled	tote, bulk oh ued Section - IV		Other	on Labeling	g accompanying product application)		
6. Manner in Which Lal	pel is Affixed to Product	Lithograp Paper Glu Stenciled	tote, bulk oh ued Section - IV		Other	on Labeling	g accompanying product		
Manner in Which Lat Contact Point (Comp. Name	pel is Affixed to Product	Lithograp Paper Glu Stenciled v for identification	stote, bulk the section - IV n of individual to be itle	be contacted, if n	Other	ocess this	application)		
Manner in Which Lab Contact Point (Comp	pel is Affixed to Product	Lithograp Paper Glu Stenciled v for identification S	stote, bulk the Section - IV n of individual to be itle enior Manager, I	be contacted, if n	Other	on Labeling	application)		
Manner in Which Lat Contact Point (Comp. Name Linda J. Fane	pel is Affixed to Product	Lithograp Paper Glu Stenciled of for identification Certifica	Section - IV n of individual to bitle enior Manager, I	be contacted, if n	Other	ocess this Telephone	application) No (Include Area Code) 455		
Manner in Which Lat Contact Point (Comp. Name Linda J. Fane I certify that the sta	pel is Affixed to Product	Lithograp Paper Glu Stenciled V for identification Certifica this form and all	Section - IV n of individual to bitle enior Manager, Ition attachments thereo	Regulatory Affa	Other	ocess this Telephone 630-305-1	application) No (Include Area Code) 455 6. Date Application Received		
Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a	pel is Affixed to Product plete items directly below tements I have made on ny knowingly false or m	Lithograp Paper Glu Stenciled V for identification Certifica this form and all	Section - IV n of individual to bitle enior Manager, Ition attachments thereo	Regulatory Affa	Other	ocess this Telephone 630-305-1	application) No (Include Area Code) 455		
Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable law.	pel is Affixed to Product plete items directly below tements I have made on ny knowingly false or m	Lithograp Paper Glu Stenciled of for identification The Secretification Certification this form and all his leading statements	Section - IV n of individual to be itle enior Manager, Ition attachments therefore may be punisha	Regulatory Affa	Other	ocess this Telephone 630-305-1	application) No (Include Area Code) 455 6. Date Application Received		
1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable far. 2. Signature	tements I have made on my knowingly false or my	Lithograp Paper Glu Stenciled of for identification The Secretification Certification this form and all his leading statements	Section - IV n of individual to bitle enior Manager, Ition attachments thereo	Regulatory Affa	Other	ocess this Telephone 630-305-1	application) No (Include Area Code) 455 6. Date Application Received		
1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable far. 2. Signature	tements I have made on my knowingly false or my	Lithograp Paper Glu Stenciled of for identification T S Certifica this form and all disleading statemes	Section - IV n of individual to be itle enior Manager, It tion attachments therefor may be punisha	Regulatory Affa to are true, accurable by fine or im	Other	ocess this Telephone 630-305-1	application) No (Include Area Code) 455 6. Date Application Received		
1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable late. 2. Signature	pel is Affixed to Product plete items directly below tements I have made on ny knowingly false or m	Lithograp Paper Glu Stenciled of for identification T S Certifica this form and all disleading statemes 3.	Section - IV n of individual to be itle enior Manager, Ition attachments therefore may be punisha	Regulatory Affa to are true, accurable by fine or im	Other	ocess this Telephone 630-305-1	application) No. (Include Area Code) 4.55 6. Date Application Received		
1. Contact Point (Comp. Name Linda J. Fane I certify that the sta acknowledge that a under applicable late. 2. Signature	tements I have made on my knowingly false or my	Lithograp Paper Glu Stenciled of for identification T S Certifica this form and all disleading statemes 3.	Section - IV n of individual to be title enior Manager, It tion attachments therefor may be punished Title enior Manager, I	Regulatory Affa to are true, accurable by fine or im	Other	ocess this Telephone 630-305-1	application) No (Include Area Code) 455 6. Date Application Received		

DATA FACKAGE BEAN SHEET

Date: 07-Nov-2014 Page 1 of 1

Decision #: 497109 DP #: (423774)

NON PRIA

Parent DP #:

Submission #: 959314

E-Sub #:

* * * Registration Information * * *

Registration:	1706-242 - PURATE				
Company:	1706 - NALCO COMPANY				
Risk Manager:	RM 32 - Sharon Carlisle - (703)	308-6427 Room# PY1	S-8913		
Risk Manager Reviewer:	David Liem DLIEM				
Sent Date:		PRIA Due Date:	18-Jan-2015	Edited Due Date:	
Type of Registration:	Product Registration - Section 3	<u> </u>			
Action Desc:	(362) FORMULA CHANGE; TEC	HNICAL;			
Ingredients:	073301, Sodium chlorate(40%)			·	
	* * * Data	a Package Info	ormation *	**	
Expedite:	◯ Yes ● No	Date Sent:	07-Nov-2014	Due Back:	
DP Ingredient:	073301, Sodium chlorate				
DP Title:	Minor Formulation Amendment				
CSF Included:	◯ Yes ● No Label II	ncluded: O Yes	No Pare	ent DP #:	
Assigned To	<u> </u>	Date in	Date Out	-	
Organization: AD / P	SB			Last Possible Science Due Date:	04-Dec-2014
Team Name: CTT				Science Due Date:	
					
				_	
				_	
	" " " Studie	es Sent for Re	view ^ ~ *		
		No Studios			

No Studies

* * * Additional Data Package for this Decision * * *

No Additional Data Packages

* * * Data Package Instructions * * *

This is not a PRIA. No technical review is needed.

Please review the attached minor formulation amendment. If you have any questions, please touch base with David Liem. Thank you.

Demson

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



SEPA United Status Environmental Protection Office of Pesticide Programs Agency

Antimicrobials Division (AD)

November 19, 2014

EPA Reg#: 170	6-242			DP Barcode: 423774				
			Submission #: 959314					
Product name: Purate			Registrant: Nalco Company					
Daviouvor's nom	an Cale	adar Dad	lei arroa	AD/DSD/CTT Draduct Chamister				
Reviewer's nan							<u>y</u>	
Agency due dat	Agency due date: 01/18/15			PSB received date: 11/19/14				
CTT received d	CTT received date: 11/19/14			Science due	date: 12/04/14	•		
Formulation typ	e: EUP							
Integrated syste	m: []	Non-in	tegrated s	tegrated system:[X] Food use: [] Non-f			food use: [X]	
Action Code: 30	62		Date Completed: 11/19/2014				14	
PC Code	CA	S#		Active Ingre	dient Names		% wt (label)	
073301	7775-0	9-9		Sodium	Chlorate		40.0	

Na⁺

Test Lab: N/A MRID(s): N/A

Approver: Karen P. Hicks Approved date: 11/19/2014

Guideline:

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA United States Environmental Protection Office of Pesticide Programs Agency

Antimicrobials Division (AD)

November 19, 2014

<u>MEMORANDUM</u>

Product Chemistry Review for EPA Reg # 1706-242 Subject:

Product name: Purate

DP #: 423774

Salvador Rodriguez, Chemist From:

Product Science Branch, CT Team Antimicrobials Division (7510P)

Karen P. Hicks, CT Team Leader Thru:

Product Science Branch

Antimicrobials Division (7510P)

To: Demson Fuller/ David Liem

PM Team 32

Antimicrobials Division (7510P)

APPLICANT: Nalco Company

Action code: 362

Due date: 01/18/15

Product Formulation Active Ingredient (AI):

Sodium Chlorate40.0

% by wt.

BACKGROUND:

The registrant, Nalco Company, is submitting a Confidential Statement of Formula for the alternate # 2 formulation, to support the registration for the product **Purate.** The product chemistry reviewer has received the following documents:

- Cover letter, dated 10/17/14.
- Confidential Statement of Formula, 10/17/14, for the alternate # 2 formulation.
- Confidential Statement of Formula (CSF), dated 07/30/2009, for the basic formulation. (Reference).

FINDINGS:

- 1. The CSF, dated 10/17/14, for the alternate # 2 formulation is revised.
- 2. The CSF and the label have the same nominal concentrations for the active ingredient.
- 3. All certified limits meet the EPA 40 CFR standard certified limits.

CONCLUSIONS:

Product Science Branch of Antimicrobials Division finds the proposed CSF for the alternate # 2 formulation, dated 10/17/14, for the disinfectant, sanitizer, insecticide, miticide, algaecide, molluscicide, non-integrated, non-food use, end-use product **EPARN: 1706-242** to be acceptable.

DATA PACKAGE BEAN SHEET

Date: 18-Nov-2014 Page 1 of 1

Decision #: 497109

DP #: (423774)

NON PRIA

Parent DP #:

Sub Data Package Due Date: _____

Submission #: 959314

E-Sub #:

* * * Registration Information * * * FUE Registration: 1706-242 - PURATE Company: 1706 - NALCO COMPANY Risk Manager: RM 32 - Sharon Carlisle - (703) 308-6427 Room# PY1 S-8913 Risk Manager Reviewer: David Liem DLIEM Sent Date: PRIA Due Date: 18-Jan-2015 Edited Due Date: Type of Registration: Product Registration - Section 3 Action Desc: (362) FORMULA CHANGE; TECHNICAL; Ingredients: 073301, Sodium chlorate(40%) * * * Data Package(Information Expedite: Yes No Date Sent: 07-Nov-2014 DP Ingredient: 073301, Sodium chlorate DP Title: Minor Formulation Amendment CSF Included: () Yes No Label Included: Yes No Parent DP #: Assigned To Date In Date Out Organization: AD / PSB 14-Nov-2014 Last Possible Science Due Date: 04-Dec-2014 Team Name: CTT 17-Nov-2014 Science Due Date:

* * * Studies Sent for Review

18-Nov-2014

No Studies

* * * Additional Data Package for this Decision * * *

No Additional Data Packages

* * * Data Package Instructions * * *

This is not a PRIA. No technical review is needed.

Reviewer Name: Rodriguez, Salvador

Please review the attached minor formulation amendment. If you have any questions, please touch base with David Liem. Thank you.

Demson

Contractor Name:



October 7, 2014

Document Processing Desk (FPL)
Office of Pesticide Programs (7510P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention:

Demson Fuller

Product Manager 32 Antimicrobials Division

Subject: Final Printed Label

Product: PURATE™ (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco Company is submitting a final printed label for Purate (1706-242) in response to the Agency letter of September 29, 2014.

In support of this submission the following is enclosed:

- 1. Application Form (EPA Form 8570-1)
- 2. One copy of the final printed label
- 3. The Agency letter dated September 29, 2014

If you have any questions, please contact me at 630-305-1455.

Regards,

Linda J. Fane

Senior Manager

Linda Fane

1601 W. DIEHL ROAD NAPERVILLE, IL 60563-1198

ffane@nalco.com

630 305 1455

630 305 2945

Senior Manager, Regulatory Affairs

Please read instructions	on reverse before comp	<u>let.</u> n.	Form Approv	ed. O. 1. 2070	-0060, Approval expires 2-28-95			
		United States		Registratio	on OPP Identifier Number			
EPA	Environme	ntal Protect	ion Agency	Amendme				
DI II		shington, DC 20	•	Other				
			on for Pesticide – Section		1			
I. Company/Product Nu	- umbar	Application	2. EPA Product Manag		3. Proposed Classification			
1706-242	mioci		Demson Fuller	301	None Restricted			
4. Company/Product (N	ame)		PM#		None Restricted			
Purate TM			32					
5. Name and Address of		Code)	6. Expedited Review	w. In accordance	with FIFRA Section 3(c)(3)			
Naico, an Ecolab Con			(b)(i), my product is	similar or identica	al in composition and			
1601 West Diehl Road	i		labeling to:					
Naperville, IL 60563			EPA Reg. Nos.					
	Charle California a a a a a a a							
	Check if this is a new ad	aress	Product Names					
Section - II								
Amendment – Exp	lain below.		Final printed	labels in response t	o			
Resubmission in re	sponse to Agency letter	dated	Agency letter	dated September 2	<u>9, 2014</u>			
	-		"Me Too" A	pplication				
Notification – Explain Below.								
Other – Explain Below. Explanation: Use additional page(s) if necessary. (For Section I and Section II.)								
Explanation: Osc auc	mionai page(s) ii necess	ary. (For Section	ii i and section ii.)					
Submission of the	final printed label	in response	to the Agency letter dated	September 29,	2014.			
•								
li de la companya de					•			
			Section - III					
1. Material This Produ	ct Will Be Packaged I	n:						
Child-Resistant	Unit Packaging		Water Soluble Packaging	2. Type	of Container			
Packaging	Yes		Yes	│	ıl			
Yes	No No		N₀		tic			
N₀				Glas	s			
* Certification	If "Yes"	No. per	If "Yes" No. per	r 🗖 p.,,				
must be submitted	Unit Packaging wgt.	Container	Packaging wgt. Contain					
					r (Specify) <u>Bulk</u>			
3. Location of Net Cont	ents Information	4. Size(s) Ret			on of Label Directions			
I 🗆 🖂		311 gal. plasti	c tote, bulk	On La	abel			
Label 🔀	Container			On La	abeling accompanying product			
6. Manner in Which Lal	oel is Affixed to Product	: Lithogra	ph	Other				
		Paper G	lued					
		Stencile			::			
<u> </u>			Section - IV					
					s this antiitation			
1 Contact Point (Comm	lete items directly halm	for identificati	an of individual to he contacted it :	מ <i>ייי</i> ת או	U 11110 GDD111CG11C/11 AAAAAA			
Contact Point (Comp. Name	lete items directly below		on of individual to be contacted, if r Fitle					
	lete items directly below			Tele	phone No. (Include Area Code)			
	lete items directly below			Tele				
Name	llete items directly below		Title Senior Manager, Regulatory Aff	Tele	phone No. (Include Area Code) -305-1455 6. Date Application			
Name Linda J. Fane I certify that the sta	tements I have made on	Certific:	Title Senior Manager, Regulatory Aff ation I attachments thereto are true, accur	Tele fairs 630- rate and complete.	phone No. (Include Area Code) 305-1455 6. Date Application			
Name Linda J. Fane I certify that the sta	tements I have made on ny knowingly false or m	Certific:	Title Senior Manager, Regulatory Aff ation	Tele fairs 630- rate and complete.	phone No. (Include Area Code) 305-1455 6. Date Application			
Name Linda J. Fane I certify that the sta acknowledge that acunder applicable law	tements I have made on ny knowingly false or m	Certifications this form and all isleading statem	Fitle Senior Manager, Regulatory Affation I attachments thereto are true, accurent may be punishable by fine or in	Tele fairs 630- rate and complete.	phone No. (Include Area Code) 305-1455 6. Date Application			
Name Linda J. Fane I certify that the sta	tements I have made on ny knowingly false or m	Certifications this form and all isleading statem	Title Senior Manager, Regulatory Aff ation I attachments thereto are true, accur	Tele fairs 630- rate and complete.	phone No. (Include Area Code) 305-1455 6. Date Application			
Name Linda J. Fane I certify that the sta acknowledge that a under applicable law 2. Signature	tements I have made on ny knowingly false or m	Certifications of this form and all isleading statem	Citle Senior Manager, Regulatory Affation I attachments thereto are true, accurate may be punishable by fine or in B. Title	Tele airs 630- rate and complete. Inprisonment or both	phone No. (Include Area Code) 305-1455 6. Date Application			
I certify that the sta acknowledge that a under applicable law.	tements I have made on ny knowingly false or m	Certifications of this form and all isleading statem	Citle Senior Manager, Regulatory Affation I attachments thereto are true, accurent may be punishable by fine or in Title Senior Manager, Regulatory Aff	Tele airs 630- rate and complete. Inprisonment or both	phone No. (Include Area Code) 305-1455 6. Date Application			
Name Linda J. Fane I certify that the sta acknowledge that a under applicable law 2. Signature	tements I have made on ny knowingly false or m	Certifications of this form and all isleading statem	Citle Senior Manager, Regulatory Affation I attachments thereto are true, accurate may be punishable by fine or in B. Title	Tele airs 630- rate and complete. Inprisonment or both	phone No. (Include Area Code) 305-1455 6. Date Application			



A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chlorine Dioxide Generator This chemical solution is for the use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this precursor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstock of 78% sulfuric acid. Please refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT:	
Sodium Chlorate (NaClO ₃)	40.0%
	60.0%
TOTAL	

FIRST AID		
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.	
IE ON CIGNI OF	Call a poison control center or doctor for treatment advice.	
CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.	
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.	
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.		
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of		

in case of exposure emergency, call (800) 424-9300			
NALCO COMPANY		EPA Reg. No. 1706-242	
1601 W. Diehl Road		EPA Est. No. 49620-MS-1	
Naperville, IL 60563-1198			
(630) 305-1000			
	Net Contents	Gallons	

gastric lavage.

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Hammful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gurm, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product lifts lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Dean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites: Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 – 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 – 5.0 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either method of application must maintain a residual concentration of 0.1 – 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

DIRECTIONS FOR USE (cont'd)

Impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these agusts site may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to actieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) is the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if he pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water, fracturing system fluids

(NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters.

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Orinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 – 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for nonpesticidal uses such as:

Oxidizing nutrients Reducing sludge

Eliminating odors Clarifying/precipitating organic and inorganic particles

Controlling scale & deposits Reducing TOC (Total Organic Carbon)

Controlling iron & manganese Reducing color

Controlling corrosion Destruction of odors caused by phenolic simple cyanides and

sulfides by chemical oxidation

Storage and Disposal Statement for non-refillable containers:

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from suffuric acid precursor and all other acids. Store in fire-resistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for quidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alteratively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanity and fill, or by incineration.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

Linda J. Fane Senior Manager 1601 West Diehl Rd. Naperville, IL 60563-1198

8EP 29 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Subject:

Purate

EPA Registration No. 1706-242 Application Dated: August 1, 2014 Receipt Dated: August 4, 2014

Dear Ms. Fane:

This acknowledges the receipt of your Amendment application dated August 1, 2014 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended.

Submission and Proposed Changes

Update the company name, address and registration number due to registration transfer, add optional marketing language "Not approved for use in California", change ® symbol to TM from product brand name, and harmonize the Pesticide Storage and Pesticide Disposal headings for Nalco PurateTM product (EPA Reg# 1706-242). Product label Rev 6/14.

General Comments

If you have any questions or comments concerning this letter, please contact David Liem at liem.david@epa.gov or call (703) 305-1284, or me at fuller.demson@epa.gov or call 703-308-8062.

Denison Fuller

Product Manager - Team 32

Regulatory Management Branch II Antimicrobials Division (7510P)

Att: Accepted stamped label.



A Precursor Chemical Solution for Use Only in the SVO-Pure ** Chicrine Dioxide Concretor This chemical solution is for the use only in the S'/P-Pure Cilionne Dioulds Guneratur, a pessicide device that produces CHLORINE DIOXIDE absorces into water. In addition to this precursor, the SVP-Pure Chlorine Dioxide Generalor usually requires a feedstack of 78% sulturio acid. Plant's refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT:	
Sodium Chlorate (NaCIO ₂)	.0%
OTHER INGREDIENTS:80	
TOTAL	

•	FIRST AID
IF IN EYES	Hold oye open and flush with a directed stream of water for 15 - 20 minutes. Remove contact tenses, if present, effor the first 5 minutes, then continue musing eyes.
IF ON SKIN OR CLOTHING	Take off conteminated clothing. Rinso thin immediately with plenty of water for 15-20 minutes. Cell a polson control center or doctor immediately for treatment advice,
SWALLOWED	Cell a polision control center or doctor immediately for treatment advice. Have porson sip a gless of water if able to excitor. Do not induce veniting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh eir. If person is not breeshing, cas 911 or an ambutance, then give artificial respiration preferably mouth-to-mouth if possible. Call a polison control center or doctor for treatment advice.
Have the produ	ct container or label with you when calling a polson control center or doctor, or going for treatment.
NOTE TO PHYS	ICIAN: Probable mucoust damage may contraindicate the use of gastric lavage.

	exposure em	ergency, call (800) 424-9300
NALCO COMPANY		EPA Reg. No. 1708-242
1601 W. Diehl Road		EPA Est. No. 49820-MS-1
Naperville, IL 60563-1198		
(630) 305-1000		
.,	Net Contents	Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrostre. Courses irreversible eye damage. Harmful if ebsorbed through the skin or inheled. Do not get in eyes or on clothing. Avoid contact with skin. Wear googles or face shield. When contact is likely, wear a PVC or nubber rainsuit and wash down rainsuit after each use. West protective gloves, plastic or rubber. Wear plastic or rubber safety load boots. Leather and cloth improgneted with sodium chlorate are highly itemmable and easily ignited with minor triction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-aite. Wash thoroughly with soop and water offer handling and before eating, drinking, chewing gum, using tabacco, or using the toilet,

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into takes, streams, ponds, estuarios, oceans or other waters unless in accordance with the requirements of a National Poliulant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong coldizing agent. Do not conteminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spits immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow memufacturer's instructions for cleaning/mainteiging PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other issuadry. Change cluthing when contaminated and wash on-alts. Do not allow contaminated cluthing to dry before washing cluthing on-site.

Discard cicihing and other absorbent malerials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the tollet.

Lists must remove ciothing/PPE immediately if posticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a monner inconsistent with its labeling. Only for formulation as an entimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dicadde Generator, a posticide device installed to generate chlorine dicade for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the childrine dioxide. Chilorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Inemiser Treament

Distance Years Section 1. This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical doseance of children facilities facilities systems is between 0.5 and 5 ppm on a confinituous basis. Puratte has been approved by the Mational Sanitation Foundation for use in drinking

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algor and mollusk populations in industrial process or waste water at the sites listed below. The dossige of chlorine dicade required is dependent on the specific use; see apecific directions below. Purate may be used to treat the following equatic sites: Recirculating Cooling Water Towers

To control microbial and signs stone in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations heaen 0.1 - 1.0 ppm. If using intermitient leed, maintain a residual concentration of 0.1 - 5.0 ppm. Chlorine dioxide transi be added to trip pen, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult modusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred apply chlorine dioxide at rates that mointain 0.25-2 ppm in the cooling water. To prevent settling and femeral of the free elementing torvine or moltusks (voltigers), apply a continuous feed to achieve a residual of 0,1-0.5 port. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form sime in paper process water and that cause blockages of paper mill equipment, and to oxidize sime huldup stready present, chlorine dioxide may be applied in an nt or continuous dose. Either method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chilorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a simicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizor, carmery and retort water systems:

To control odor and reduce becterial stime in cooling and warming waters such as canning, retort, and pestourizer process writer, chlorine dioxide may be added informittently to achieve a dose of 0.4 ppm.

Impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and signs that cause unacceptable odors and stime, these equalic sites may be treated with chierine dicatele on an intermittent basis. Sufficient chierine dicatele must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and alime caused by algae and microorganisms.

range and wastewater systems

owwage and wasswerrer systems
For (distriction/santization) of dreeppendid wastwikter, add chlorine dioxide to achieve a residual of up
to 5 ppm. To control odors claused by Quiblies discognized with sewage and wastewater, a minimum of
5.2 ppm chlorine dioxide musicle applies to footing. Them suitide (measured as suitide ion) if the pH is
between 6-9. A minimum of 1% ppm criticine dioxide grad coldize 1 ppm phanol if the pH is less than 6; if
the pH is greater than 10, a minimum of 3.5 ppm glorige dioxide is required.

Gas and oil recovery injection water fracturing system fluids

NOT ARROWED FOR 1983 IN ALL INCOMMAN.

(NOT APPROVED FOR USE IN CALIFORNIA)

To control suffete reducing bacteris that form colloidal suffer or iron suffices, and to oxidize suffices, a To control sustains recturing occurs that one continuous or instances, set or continuous or intermittent application of chlorine disadde may be used. If using a continuous feet of chlorine disadde papply it at rates slightlightligher than the sufficie codeduce demand, as determined by a sufficie demang is study, of thesing an intermittent feet, apply a hock going of 200-3000 ppm chlorine disadde. Please excepts that this product is not discharged into lakes agraging, ponds, cosens or other waters.

Ultrasonic tank fester, bhoth processific wesh gater, and leather processing solutions (NOT APPROPED FOR USE IN CALIFORNIA)

To control stime caused by microbial populations in these liquid systems, a residual chlorine dioude concentration between 0.25 to 6.9 ppm is necessary. Chlorine dioude may be added intermittently, on a continuous basis to achieve the desired residual; the concentration entrituded to dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purste is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, unimula raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 - 2.0 ppm chlorine dicode.

This product also may be used to generate chloring dioxide for no	OTI-
pesticidal uses such as:	
Oxidizing nutrients Eliminating codes Eliminating codes Controlling scale & deposits Controlling iron & manganese Controlling corresion Controlling corresion Destruction of odors caused by phranicic almole cyan applicable to charge out of the controlling controll	

Storage and Disposal Statement for non-refulnible & relitable continuers:

STORAGE AND DISPOSAL: Check in the content of the c

PESTICIDE DISPOSAL: Posticide wastes are soutely hazardous. Improper disposal of excess pesticide, spray mixture, or rimante is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING; Non-rehitable container. Do not reuse or refill this container. Clean Container promptly after emplying.

Triple rinse as follows: Emply the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the Container on its end and tip it back and forth several times. Turn the container over onto its other and and tip it back and forth several limes. Empty the rinsate into application equipment or a mix land or the reason equipment of a reason land over the reason expension equipment of a reason enter the reason equipment of a reason land or reason expension equipment of a reason expension expension equipment of a reason expension expe or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container unalde down over explication equipment or mix tank or collect rinsets for later use or disposal. Insert pressure rinsing nazzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a containy landfill,

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before first disposal is the responsibility of the person disposing of the container. Cleaning before refitting is the responsibility of the refitter. To clean the container before final disposal, empty the remaining contents from this container into explication equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rimate into application equipment or rimate collection system. Repeat this rimaing procedure two more times.

Material Sent for Data Extraction

Reg. # $1706-242$
Description: Amendment
Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated 9/29/14
Notification Dated
New CSF(s) Dated
☐ Other:
☐ Decision #:
Other Action/Comments:
File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.
Reviewer: DAVID LIEM
Phone: 305-1284 Division: #D
Date: $\frac{9/29/14^{\prime}}{}$

NAME OF THE PARTY
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

Linda J. Fane Senior Manager 1601 West Diehl Rd. Naperville, IL 60563-1198

SEP 29 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Subject:

Purate

EPA Registration No. 1706-242 Application Dated: August 1, 2014 Receipt Dated: August 4, 2014

Dear Ms. Fane:

This acknowledges the receipt of your Amendment application dated August 1, 2014 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended.

Submission and Proposed Changes

Update the company name, address and registration number due to registration transfer, add optional marketing language "Not approved for use in California", change ® symbol to ™ from product brand name, and harmonize the Pesticide Storage and Pesticide Disposal headings for Nalco Purate™ product (EPA Reg# 1706-242). Product label Rev 6/14.

General Comments

Based on the review of the material submitted, the label amendment for Purate™ (EPA Reg# 1706-242) is acceptable. A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3. This latest amended label and a copy of this letter have been inserted in your file for future reference.

If you have any questions or comments concerning this letter, please contact David Liem at liem.david@epa.gov or call (703) 305-1284, or me at fuller.demson@epa.gov or call 703-308-8062.

Defison Fuller

Product Manager - Team 32

Regulatory Management Branch II Antimicrobials Division (7510P)

Att: Accepted stamped label.



A Precursor Chemical Solution for Use Only In the SVP-Pure Chiefine Dioxide Generator This chemical solution is for the use only in the SVP-Pere Chlorine Dioxide Generator, a pericide device that produces CHLORINE DIOXIDE absorbed into water. In addition to his precursor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstack of 78% sulfuric acid. Please refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE **KEEP OUT OF REACH OF CHILDREN** DANGER/PELIGRO

usted no entiende la etiqueta, busque a alguien para que se la aplique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT:

Sodium Chlorate (NaCIO ₃)	40.0%
OTHER INGREDIENTS:	
TOTAL	100.0%

	FIRST AID
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

in case of exposure emergency, call (800) 424-9300

NALCO COMPANY		EPA Reg. No. 1708-242
1601 W. Diehl Road		EPA Est. No. 49620-MS-1
Naperville, IL 60563-1198		
(630) 305-1000		
	Net Contents	_Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing agent. Do not contaminate with dirt, cils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing splils to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dloxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites:

Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 - 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred. apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chlorine dioxide may be applied in an Intermittent or continuous dose. Either method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial stime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm. impounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water: fracturing system fluids

(NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to oxidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other waters

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored to achieve a residual concentration between 1.0 - 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for nonpesticidal uses such as:

Oxidizing nutrients Ellminating odors Controlling scale & deposits Controlling Iron & manganese

Controlling corrosion

Reducing sludge Clarifying/precipitating organic and inorganic Reducing TOC (Total Organi

Reducing color
Destruction of odors caused symmetric simple cyanides and sulfides by chemical oxidation

Storage and Disposal Statement for non-refiliable & refillable containers:

Do not contaminate water, food, or feed by store medial and anything for the Rodenius Store in the original container. Store at anything for the resistant area separately from sulfuric acid precursor any all pages about 1 for resistant area separate from incompatible materials such as acids performed metals.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promotly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container % full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alteratively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container uoside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill. or by Incineration.

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat 7 c rinsing procedure two more times.

Rev. 6/14



A Precursor Chemical Solution for Use Only in the SVP-Pure™ Chiefine Dioxide Generator This chemical solution is for the use only in thu S'/P-Pure Citorine Dictide Gunerator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to this preciusor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstock of 78% suffuric acid. Places refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT:	
dium Chlorate (NaCIO ₃)	0.0%
HER INGREDIENTS:60	
10TAL 100	

FIRST AID		
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.	
CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.	
if SWALLOWED	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to availtow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.	
IF INHALED	Move person to fresh eir. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a potson control center or doctor for treatment advice.	
	ct container or label with you when calling a poison control canter or doctor, or going for treatment. IICIAN: Probable mucosal damage may contraindicate the use of	

in case o	of exposure e	mergency, call (800) 424-9300
NALCO COMPANY		EPA Reg. No. 1706-242
1601 W. Diehl Road		EPA Est. No. 49620-MS-1
"sperville, IL 60563-1198		
0) 305-1000		
	Net Contents_	Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on dothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tabacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and equatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Politiant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong oxidizing egent. Do not contaminate with dirt, oils or organic matter of any sort. Contemination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical splits, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change circling when conteminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing on-site.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this graduct's concentrate. Do not reuse them

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handling this product. As soon as possible, wash thoroughly and chance into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formutation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a posticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Orinking Water Treatment

duct is approved for use in water treatment facilities that produce potable drinking water in compllance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Senitation Foundation for use in drinking

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algel and mollusk populations in industrial process or waste water at the sites tisted below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites: Recirculating Cooling Water Towers

To control microbial and algal stime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 - 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 ppm Chlorine dloxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollustic in once-through cooling water systems, and intermittent dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is praferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (veiligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form stime in paper process water and that cause blockages of paper mill equipment, and to oxidize slime buildup already present, chiorine dioxide may be applied in an intermittent or continuous dose. Either method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chlorine dioxide in the paper process water. If the system is bedly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a silmicide for process. water used in the manufacture of food-contact paper and paperboard

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial stime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm. impounded take, pond and reservoir water, including industrial waste water

To control microorganisms and signe that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an Intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and stime caused by alose and microomanisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will exidize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids

(NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteris that form colloidal sulfur or iron sulfides, and to exidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the suffice oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other

Ultrasonic tank water; photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, enimals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to schieve a residual concentration between 1.0 - 2.0 ppm chlorine dioxide.

his product also may b	e used to generate chlorine dioxide for non-	
esticidal uses such as:	•	
etneintun gaizübix	Reducing studge	#
liminating odors	Ctarifying/precipitating organic and increasing matters T.E. Reducing TOC (Total Organic carbos)	١.
Controlling scale & deposits	Reducing TOC (Total Organio Carpeo)	~
ontrolling iron & manganese	Reducing color 7 % () U	
controlling corresion	Destruction of odors caused by phenolic simple evanides and	

suffices by chemical oxidation

Storage and Disposal Statement for non-refillable & refillable containers:

29 SEP STORAGE AND DISPOSAL STORAGE, FURNISHER, 2002

Do not contaminate water, food, or feed by storage circles to the storage of th

PESTICIDE STORAGE: Store in the original container. Store at ambient imperatural from 40°F to 100°F. Store separately from sulfuric acid procursor and all pictor edition. Store in the resistant area separate from incompetible materials such as acids powerized metals, organic chemicals, combustible materials and dirt. Clean up spills immediately,

PEBTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazerdous Waste representative at the nearest EPA

Regional Office for guidance.
CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clear container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and lighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other and and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Atteratively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill, or by incineration

CONTAINER HANDLING: Refiliable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disputing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Apliate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Rev B/14



A Precursor Chemical Solution for Use Only in the SV^{to}-Pure^{nt} Chicrine Dioxide Generator This chemical solution is for the use only in the S/P-Pure Chlorine Diocide General, a persisted device that produces CH_ORINE_DIOCNDE abscirces (Mr. worder, in addition to this preciouse, the SVP-Pure Chlorine Diocide). Pure Chlorine Dioxide Generator usually requires a feedstack of 78% sulfuric moid. Plans a refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alquien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE	INGRED	IENT:
Sodium	Chlorata	(NaClO

Sodium Chlorate (NaClO ₃)	40.0%
OTHER INGREDIENTS:	. 60.0%
TOTAL	100.0%

-	FIRST AID
IF IN EYES	Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact tenses, if present, effer the first 5 minutes, then continue prising eyes. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rhrse skin Immediately with plenty of water for 16-20 minutes. Cell a poison control center or doctor immediately for treatment advice.
IF SWALLOWED	Cell a poison control center or doctor immediately for treatment advice. Here person sip a glass of water if able to swallow. Do not induce vontiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an embulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
Have the produ	ct container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYS	ICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

in case of exposure emergency, call (800) 424-9300

i	NALCO COMPANY		EPA Reg. No. 1705-242	
	1601 W. Diehl Road		EPA Est. No. 49620-MS-1	
Į	Naperville, IL 60563-1198			
	(630) 305-1000			
	l * -	Not Contents	Gallons	

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin, Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsult and wash down rainsult after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing ciothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toliet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and equatic organisms. Do not discharge efficient containing this product into takes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Politicant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purete is a strong coldizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical splits immediately. Allowing spills to dry or concentrate may cause sportaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the tollet.

User must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Do not allow contemnated clothing to dry before washing clothing on-site

User must remove PPE immediately ofter handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dicarde Generator, a pesticide device installed to generate chlorine dicarde for the constant uses listed below. Feed rates for Pursic are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chlorine dioxide must be below the water level to prevent votatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatm

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dicodde for water systems is between 0.5 and 5 ppm on a continuous bests. Pursts has been approved by the National Santation Foundation for use in drinking

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, sigal and moliusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dicadde required is dependent on the specific use; see specific directions below. Purste may be used to treat the following equatic sites: Recirculating Cooling Water Towers

To control microbial and algal stime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chloring dioxide concentrations between 0.1 - 1.0 ppm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 ppm. Chlorine dioxide must be added to dro pen, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove edult moltusks in once-through cooling water systems, and intermittant dose of 0.2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and sitischment of the free swimming larvae or molitusks (volligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorpanisms that form stime in paper process water and that cause blockages of paper mill equipment, and to oxidize stime buildup alroady present, chlorine dioxide may be applied in an ittent or continuous dose. Either method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a silinicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial alims in cooking and warming waters such as canning, retort, and pesteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm. mpounded lake, pond and reservoir water, including industrial waste water

To control microorganisms and signe that cause unacceptable odors and slime, these equatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm, in order to achieve adequate control of odor and atime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by sulfides associated with sewage and wastewater, a minimum of 5.2 ppm chlorina dioxide must be applied to oxidize 1 ppm suifide (measured as suifide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will coldize 1 ppm phenol if the pH is less than 8; if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids (NOT APPROVED POR USE IN CALIFORNIA)

To control suffate reducing bacteria that form colloidel suffer or iron sulfides, and to exidize suffides, a continuous or intermittent application of chiorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dioxide. Please be certain that this product is not discharged into takes, streams, ponds, oceans or other

Ultrasonic tank water: photo processing wash water; and leather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control stime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on

Agricultural Water Uses (Non-Food Contact)

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or confinuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 - 2.0 ppm chlorine dioxide.

his product also may be	e used to generate chlorine dioxide for non-	ı
esticidal uses such as:		ı
oxidizing nutrients	Reducing sludge	۲
liminating odors	Clarifying/precipitating organic and ingranic milicles	ı
controlling scale & deposits	Reducing TOC (Total Organic Cmpop)	۲
controlling Iron & manganese	Reducing color 1 12 ()	
controlling corresion	Destruction of odors caused by Phenotic simple cyanides and	

Storage and Disposal Statement for non-refillable & refillable continu

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storben codiliphania, as practed, for the past of the total present of the past of th

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance

CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alteratively, pressure ringe as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsale for later use or disposal, insort pressure rinsing nozzio in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sonitary landill.

CONTAINER HANDLING: Refiliable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person dispusing of the container. Cleaning before retilling is the responsibility of the relifier. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinaste into application equipment or rinsale collection system. Repeat this rinsing procedure two more times.

Rev. 6/14



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

April 28, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. RHONDA SCHULZ ECOLAB, INC., AGENT FOR NALCO COMPANY A SUBSIDIARY OF ECOLAB, INC. 370 N. WABASHA STREET ST. PAUL, MN 55102-1390

Dear Ms. Schulz:

Subject: Transfer of Pesticide Registrations and Data From Company Number 49620 to Company Number 1706

Pursuant to your request in your letter and transfer agreement received March 04, 2014, we have approved the transfer of the following registrations from AKZO NOBEL PULP AND PERFORMANCE CHEMICALS INC., company number 49620 to NALCO COMPANY, company number 1706.

The effective date of these changes is the date of this letter.

Danistana d Danidanata	Old EPA	New EPA
Registered Products	Reg. No.	Reg. No.
PURATE	49620-4	1706-242

You should indicate the new company designation, new EPA Registration Number and new Establishment Number (if it has changed) on the labeling at the next printing which should occur no later than 18 months after the effective date of this transfer. After 18 months, any product released for shipment must bear the new Registration Number and Establishment Number. If you intend to use the labels which currently appear on the transferor's product after the effective date of the transfer, but within the 18 month grace period, you must maintain complete and accurate records which identify by batch number, lot number, or other suitable description the quantities of such product bearing the transferor's label. Each container or package bearing the transferor's label which is released after the effective date of product registration transfer, must be clearly and accurately marked with the batch number, lot number or other descriptive designation used to identify the product in your records.

Supplemental distribution agreements of registered products do not transfer with the Section 3 registration. It is your responsibility as the registrant to notify any and all supplemental

distributors of the transferred product(s) of this transfer agreement. If you wish to enter into supplemental distribution agreements of your product(s) under this new registration, the form "Notice of Supplemental Distribution of a Registered Pesticide Product," EPA Form 8570-5, must be submitted to the Agency for each supplemental distributorship.

You are required to contact your local EPA Regional Office to determine what effect this transfer of pesticide registrations has on the pesticide production establishment registration.

It will not be necessary to submit labeling for review if the only changes are in the company designation and the EPA Registration Number. Other changes in the product and/or labeling may require EPA review and approval prior to distribution or sale of the product containing the new registration number. In any correspondence on these products always refer to the U.S. EPA Registration Number listed above.

The transferred registration will have the same status under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, 7 USC 136 et seq., as it had prior to the approval of this transfer.

When registrations are transferred from one company to a second company, allow restrictions, data requirements, conditions (suspensions), and deadlines existing on the registrations are transferred with the registrations. The new company is responsible for adhering to or complying with all such restrictions, etc. on the acquired products.

With regard to deadlines, the transferee company is responsible for submitting all required data according to the schedules already established for the acquired products. Failure to do so will result in the issuance of a Notice of Intent to Suspend. Requests from transferee companies for additional time to submit, because they acquired the registration(s) after the 3(c)(2)(B) request was issued will not be granted. If a transferee company has other valid reasons for delays in the testing which were clearly outside of their control, then such requests for time extensions will be considered in accordance with the established procedures. Transfers occurring while a 3(c)(2)(B) request is being issued or during the 90-day response time are subject to the same conditions expressed above.

Registration is in no way to be construed as an endorsement or approval of these products by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with FIFRA.

Furthermore, the transfer of the subject registrations is approved under the condition that the annual maintenance fee obligation has been fully satisfied. The annual maintenance fee is based solely on the total number of active section 3 and section 24(c) registrations held by the transferor. If the annual maintenance fee has not been fully satisfied, the transferee and transferor will be notified to comply within a specified time period or the affected registrations may be canceled.

The Agency acknowledges it has received a request for data transfer received March 04, 2014 to transfer data ownership from the transferor to the transferee. The data transfer is effective the date of this letter. After this date NALCO COMPANY will be considered the data

owner. This action will not automatically reflect on the Data Submitters List. If you want to be added to the Data Submitters List, you must submit a request to:

Document Processing Desk (DSL)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20460

By copy of this letter we are informing the transferor of these changes. If you have any questions about this transfer approval please contact Louis Vaughn at (703) 308-8114.

Sincerely,

Steve Robbins, Chief

Information Services Branch

Information Technology & Resource Management Div. (7504P)

cc: MR. STEVEN P. GIVENS

AKZO NOBEL PULP AND PERFORMANCE CHEMICALS INC.

1850 PARKWAY PLACE, SUITE 1200

MARIETTA, GA 30067

RE: 49620_RAD_1706_04_28_2014

Appendix A Data Assignment

MRID Numbér	Submission Date	Submitter	Admiin Number	Lab No.	Description
44803401	4/15/1999	49620	049620-00004	49620	Lovetro, D.; Beers, S.; Dübeck, P. et al. (1999) Product Chemistry: Purate Precursor: Unpublished study prepared by Keller and Heckman LLP. 115 p. (OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1750)
45072901	3/23/2000	49620	049620-00004	49620	Sinning, D. (2000) Physical and Chemical Characteristics of Purate: Physical State, Oxidation/Reduction Flammability Explodability, pH, Viscosity and Relative Density: Lab Project Number: 2130-01, Unpublished study prepared by Case Consulting Labs, Inc. 7 p. (OPPTS 830.6303, 830.6314, 830.6315, 830.6318, 830.7000, 830.7100, 830.7300)
<u>45448401</u>	7/6/2001	49620	049620-00004	49620	Sinning, D. (2001) Physical and Chemical Characteristics of Purate: Storage Stability and Corrosion Characteristics: Lab Project Number: 2130-02. Unpublished study prepared by Case Consulting Laboratories, Inc. 18 p. (OPPTS 830.6317 and 830.6320)
<u>47116301</u>	4/26/2007	49620	049620-00004	49620	Rice, C. (2007) Purate: Toxicology Data-Walver Requests. Unpublished study prepared by Keller and Heckman LLP and Eka Chemicals Inc. 25 p.
47116302	4/26/2007	49620	049620-00004	49620	Rice, C. (2007) Purate; Human Exposure, Unpublished study prepared by Keller and Heckman LLP and Eka Chemicals Inc. 12 p.
<u>47116303</u>	4/26/2007	49620	049620-00004	49820	Rice, C. (2007) Application for Pesticide Registration Amendment Purate: Ecological Effects and Evironmental Fate Walver Requests. Unpublished study prepared by Keller and Heckman LLP and Eka Chemicals Inc. 19 p.



UNITED 5 (ATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

August 5, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. RHONDA SCHULZ ECOLAB, INC. NALCO COMPANY A SUBSIDIARY OF ECOLAB, INC. 370 N. WABASHA STREET ST. PAUL, MN 55102-1390

PRODUCT NAME: PURATE

COMPANY NAME: NALCO COMPANY

OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 1706-242 EPA RECEIPT DATE: 08/04/14

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 32, at (703) 308-8062.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division



Fee for Service

{9558709~

This package includes the following	for Division
New RegistrationAmendment	● AD ○ BPPD ○ RD
□ Studies? □ Fee Waiver? □ volpay % Reduction:	Risk Mgr. 32
Receipt No. S- EPA File Symbol/Reg. No. Pin-Punch Date:	955870 1706-242 8/4/2014
This item is NOT subject to	o FFS action.
Action Code: Requested: Granted: Amount Due: \$	Parent/Child Decisions:
☐ Inert Cleared for Intended Use Reviewer: Remarks:	Uncleared Inert in Product Date: 8/5

Liem, David

From:

Fuller, Demson

Sent:

Wednesday, September 24, 2014 1:30 PM

To:

Fane, Linda

Cc:

Kirkman, Janet; Head, Ted; Liem, David

Subject:

RE: Purate (1706-242): Team 32 Reviewer

Hi Linda,

Sorry for the delay. This action is due out on 11/2/14. David Liem is the risk manager handling this submission. He is code on this message.

Demson

From: Fane, Linda [mailto:lfane@nalco.com]
Sent: Wednesday, September 24, 2014 7:50 AM

To: Fuller, Demson

Cc: Kirkman, Janet; Head, Ted

Subject: RE: Purate (1706-242): Team 32 Reviewer

Hi Demson,

Following up per the request below.

Linda J. Fane

Senior Manager GLOBAL REGULATORY AFFAIRS

NALCO| An Ecolab Company 1601 W DIEHL RD, NAPERVILLE, IL 60563

T 630 305 1455 F 630 305 2985 E Ifane@nalco.com

From: Fane, Linda

Sent: Tuesday, September 16, 2014 9:09 AM

To: Fuller, Demson (Fuller.Demson@epa.gov) (Fuller.Demson@epa.gov)

Cc: Kirkman, Janet; Head, Ted

Subject: Purate (1706-242): Team 32 Reviewer

Hi Demson,

I'm just following up on our telephone conversation on September 10th regarding the Purate (1706-242) label amendment that is currently in for review/approval. You were going to provide me the contact information on the person on Team 32 that was assigned the project. Can you send me those details? Thank you for your assistance!

Linda J. Fane

Senior Manager
GLOBAL REGULATORY AFFAIRS



A Precursor Chemical Solution for Use Only In the SVP-Pure™ Chierine Dioxige Generator This chemical solution is for the use only in the SWP-Pere Oblorine Dioxide Generator, a pesticide device that produces CHLORINE DIOXIDE absorbed into water. In addition to his precinsor, the SVP-Pure Chlorine Dioxide Generator usually requires a feedstack of 78% sulfuric acid. Please refer to the SVP-Pure Maintenance and Operations Manual to ensure proper activation.

FOR INDUSTIAL USE **KEEP OUT OF REACH OF CHILDREN** DANGER/PELIGRO

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

ACTIVE INGREDIENT:

Sodium Chlorate (NaCIO ₃)	40.0%
OTHER INGREDIENTS:	60.0%
TOTAL	100.0%

	FIRST AID						
IF IN EYES Hold eye open and flush with a directed stream of water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.							
	Take off contaminated clothing.						
CLOTHING	CLOTHING Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.						
if Swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.						
IF INHALED Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.							
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.							

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of

gastric lavage.

In case of exposure emergency, call (800) 424-9300

NALCO COMPANY		EPA Reg. No. 1706-242
1601 W. Diehl Road		EPA Est. No. 49620-MS-1
Naperville, IL 60563-1198		
(630) 305-1000		
` '	Net Contents	Gallons

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Wear goggles or face shield. When contact is likely, wear a PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CHEMICAL HAZARDS

Purate is a strong exidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Change clothing when contaminated and wash on-site. Do not allow contaminated clothing to dry before washing clothing

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User must remove clothing/PPE Immediately if pesticide gets Inside. Then wash thoroughly and put on clean clothing. Do not allow contaminated clothing to dry before washing clothing on-site.

User must remove PPE immediately after handing this product. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

General Directions:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Only for formulation as an antimicrobial for the following uses: Purate is for use only in the SVP-Pure Chlorine Dioxide Generator, a pesticide device installed to generate chlorine dioxide for the registered uses listed below. Feed rates for Purate are determined by the operator to achieve the desired production rate for chlorine dioxide. As described below, the appropriate production rate will depend on the severity of contamination, the degree of control desired, the size of the system and residual necessary for effective control. For all uses, the point of feed of chloring dioxide must be below the water level to prevent volatilization of the chlorine dioxide. Chlorine dioxide must be added to the water stream at a point where adequate mixing and uniform distribution can occur.

Drinking Water Treatment

This product is approved for use in water treatment facilities that produce potable drinking water in compliance with the Safe Drinking Water Act. A typical dosage of chlorine dioxide for water systems is between 0.5 and 5 ppm on a continuous basis. Purate has been approved by the National Sanitation Foundation for use in drinking water systems.

INDUSTRIAL PROCESS WATER USES:

This product is approved for the control of microbial, algal and mollusk populations in industrial process or waste water at the sites listed below. The dosage of chlorine dioxide required is dependent on the specific use; see specific directions below. Purate may be used to treat the following aquatic sites:

Recirculating Cooling Water Towers

To control microbial and algal slime in recirculating cooling water systems, an intermittent or continuous application may be used. If using continuous feed, maintain residual chlorine dioxide concentrations between 0.1 - 1.0 pcm. If using intermittent feed, maintain a residual concentration of 0.1 - 5.0 pcm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Once-Through Cooling Water Towers

To remove adult mollusks in once-through cooling water systems, and intermittent dose of 0,2-25 ppm necessary; the exact dose is dependent on the infestation present. If a continuous dose is preferred, apply chlorine dioxide at rates that maintain 0.25-2 ppm in the cooling water. To prevent settling and attachment of the free swimming larvae or mollusks (velligers), apply a continuous feed to achieve a residual of 0.1-0.5 ppm. Chlorine dioxide must be added to drip pan, cold-water well, or other points where adequate mixing and uniform distribution can occur.

Textile processing water and pulp and paper process water

To control microorganisms that form slime in paper process water and that cause blockages of paper mill equipment, and to oxidize stime buildup already present, chlorine dioxide may be applied in an intermittent or continuous dose. Either method of application must maintain a residual concentration of 0.1 - 5.0 ppm of chlorine dioxide in the paper process water. If the system is badly fouled, it must be cleaned prior to treatment with chlorine dioxide. This product can be used as a slimicide for process water used in the manufacture of food-contact paper and paperboard.

Pasteurizer, cannery and retort water systems:

To control odor and reduce bacterial slime in cooling and warming waters such as canning, retort, and pasteurizer process water, chlorine dioxide may be added intermittently to achieve a dose of 0.4 ppm.

impounded take, pond and reservoir water, including industrial waste water

To control microorganisms and algae that cause unacceptable odors and slime, these aquatic sites may be treated with chlorine dioxide on an intermittent basis. Sufficient chlorine dioxide must be added to reach a residual concentration of 5 ppm. in order to achieve adequate control of odor and slime caused by algae and microorganisms.

Sewage and wastewater systems

For (disinfection/sanitization) of sewage and wastewater, add chlorine dioxide to achieve a residual of up to 5 ppm. To control odors caused by suffides associated with sewage and wastewater, a minimum of 5.2 ppm chlorine dioxide must be applied to oxidize 1 ppm sulfide (measured as sulfide ion) if the pH is between 5-9. A minimum of 1.5 ppm chlorine dioxide will oxidize 1 ppm phenol if the pH is less than 8: if the pH is greater than 10, a minimum of 3.5 ppm chlorine dioxide is required.

Gas and oil recovery injection water; fracturing system fluids

(NOT APPROVED FOR USE IN CALIFORNIA)

To control sulfate reducing bacteria that form colloidal sulfur or iron sulfides, and to exidize sulfides, a continuous or intermittent application of chlorine dioxide may be used. If using a continuous feed of chlorine dioxide, apply it at rates slightly higher than the sulfide oxidative demand, as determined by a sulfide demand study. If using an intermittent feed, apply a shock dose of 200-3000 ppm chlorine dloxide. Please be certain that this product is not discharged into lakes, streams, ponds, oceans or other

Ultrasonic tank water; photo processing wash water; and teather processing solutions (NOT APPROVED FOR USE IN CALIFORNIA)

To control slime caused by microbial populations in these liquid systems, a residual chlorine dioxide concentration between 0.25 to 5.0 ppm is necessary. Chlorine dioxide may be added intermittently, or on a continuous basis to achieve the desired residual; the concentration maintained is dependent on individual systems.

Agricultural Water Uses (Non-Food Contact)

Controlling corresion

Purate is approved for use in the control of microbial populations in water for the following agricultural non-food contact uses: Drinking water treatment for animals not meant for human consumption (e.g., show and research animals, animals raised for fur to wool; horses, mules or donkeys). Treatment of drinking water tanks for livestock not meant for human consumption can be achieved by intermittent or continuous application of chloride dioxide. Either method must be monitored, to achieve a residual concentration between 1.0 - 2.0 ppm chlorine dioxide.

This product also may be used to generate chlorine dioxide for nonpesticidal uses such as:

Oxidizing nutrients Reducing studge

Eliminating odors Clarifying/precipitating organic and inorganic particles

Controlling scale & deposits Reducing TOC (Total Organic Carbon)

Controlling iron & manganese Reducing color

Destruction of odors caused by phenolic simple cyanides and

suffides by chemical oxidation

Storage and Disposal Statement for non-refillable & refillable containers:

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container. Store at ambient temperatures from 40°F to 100°F. Store separately from sulfuric acid precursor and all other acids. Store in fireresistant area separate from incompatible materials such as acids, powdered metals, organic chemicals, combustible materials and dirt. Clean up spills immediately.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Non-refittable container. Do not reuse or refitt this container. Clean container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alteratively, pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzie in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning. If recycling is unavailable, puncture and dispose of container in a sanitary landfill. or by incineration.

CONTAINER HANDLING: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Aditate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeater rinsing procedure two more times.



1 630 305 1455

6 630 305 2945

Linda Fane
Senior Manager
1601 W. DIEHL ROAD
NAPERVILLE, IL 60563-1198
Ifane@nalco.com

August 1, 2014

Document Processing Desk (AMEND)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Demson Fuller PM-32

Subject: Label Amendment

Product: Purate (EPA Reg. No. 1706-242)

Dear Mr. Fuller:

Nalco is submitting a label amendment for Purate (EPA Reg. No. 1706-242). The label changes are:

- 1. Update the company name, address and registration number due to registration transfer
- 2. Addition of the optional marketing language "Not approved for use in California" to two use sites.
- 3. Remove the ® symbol from the product and device tradenames and replace it with the ™ symbol
- 4. Harmonization of the titles in the container disposal section for refillable and non-refillabel containers

In support of this label amendment, please find the following:

- 1. EPA Application Form 8570-1
- 2. Revised label with the updated language highlighted in yellow (5 copies)
- 3. EPA registration transfer approval letter dated 4-28-14

If you have any questions, please contact me at 630-305-1455.

Linda J. Fane

Regards:

Senior Manager/Regulatory Affairs

Mani

Please read instructions	on reverse before comp	leting <u>fo</u> rm.			Form App		OMB <u>N</u> o. 2070			•	
		Unitates	='				Re g ratio	n	OPP Identi	fier Number	
EPA	Environme	ntal Prote	ction Age	ency		\boxtimes	Amendme	nt			
	Was	hington, DC	20460				Other				
!		Applicat	ion for P	esticide	– Secti	on I					
1. Company/Product Nu	mher	21ppiitu.	1011 101 1	2. EPA P				3 Pr	oposed Clas	sification	
1706-242	anioci			Demson		anagei		□ N		Restricted	
4. Company/Product (N	lame)			PM#				י עם י	TORC _		
Purate TM				32							
5. Name and Address of	f Applicant (Include ZIP	Code)		6. Ехре	dited Re	view. In	n accordance	with F	IFRA Sect	ion 3(c)(3)	
Nalco Company			(b)(i), my product is similar or identical in composition and							and	
1601 West Diehl Road			labeling to:								
Naperville, IL 60563				EPA Reg. Nos.							
	ar trans							•••••			
	Check if this is a new ad	dress		Product	Names						
			Secti	on - II					<u> </u>		
Amendment – Exp	lain helow				Final prin	nted label	s in response t	Δ.	•	*****	
 				ш	Agency le		•	.0		•	
Resubmission in re	sponse to Agency letter	dated									
Notification – Expl	lain Below.				"Me Too	" Applica	ation			****	
·					Other - E	Explain B	elow.		•		
Explanation: Use add	ditional page(s) if necess	ary. (For Sect	ion I and Se	ction II.)					• •		
Amendment to									:		
	the company nan	earbbe an	e and rec	ietration	numbe	r due t	n renistrati	on tra	neser		
	n of the optional m									vitos	
	e the ® symbol fro										
4. Marmo	nization of the title	s in the co	ntainer d	isposai s	ection	ror retii	iable and r	ion-re	Tillable co	ontainers	
										- <u>-</u>	
			Section	on - III							
1. Material This Produ		D:					1.0				
Child-Resistant	Unit Packaging			Soluble Pac	kaging		2. Type		ainer		
Packaging	Yes		Yes			Meta					
Yes	⊠ No		☑ No				Plastic				
⊠ No							Glas	s			
* Certification	If "Yes"	No. per	If "Yes			. per	Pape	Paper			
must be submitted	Unit Packaging wgt.	Container	Packag	ing wgt.	Cor	ntainer	Othe	Other (Specify) Bulk			
	l	4 54 4 5									
3. Location of Net Cont	ents Information	4. Size(s) R						5. Location of Label Directions			
\Box \Box	a	311 gai. pia:	astic tote, bulk			On Label					
Label	Container						On Labeling accompanying product				
6. Manner in Which Lal	bel is Affixed to Product	: Lithog	raph			Oth	er			ĺ	
		Paper	Glued							l	
•		Stenci									
		Steller		TX 7							
Section - IV											
1. Contact Point (Comp	olete items directly below	for identifica		idual to be	contacted	, if neces.					
Name			Title				I ele	pnone i	No. (Include	Area Code)	
Linda I Fane Senior Manager Regulatory Affairs 630-305-1455											
Linda J. Fane Senior Manager, Regulatory Affairs 630-305-1455 Certification 6. Date Application											
74:5.41-4414-							_11_		Receive		
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both (Stamped)											
under applieable law											
2. Signature			3. Title					-			
	1.5										
mistane s				Senior Manager, Regulatory Affairs							
4. Typed Name	4. Typed Name				5. Date						
· ·											
Linda J. Fane	8-1-2014										



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

April 28, 2014

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MS. RHONDA SCHULZ ECOLAB, INC., AGENT FOR NALCO COMPANY A SUBSIDIARY OF ECOLAB, INC. 370 N. WABASHA STREET ST. PAUL, MN 55102-1390

Dear Ms. Schulz:

Subject: Transfer of Pesticide Registrations and Data From Company Number 49620 to Company Number 1706

Pursuant to your request in your letter and transfer agreement received March 04, 2014, we have approved the transfer of the following registrations from AKZO NOBEL PULP AND PERFORMANCE CHEMICALS INC., company number 49620 to NALCO COMPANY, company number 1706.

The effective date of these changes is the date of this letter.

PURATE	49620-4	1706-242
Registered Products	Reg. No.	 Reg. No.
	Old EPA	New EPA

You should indicate the new company designation, new EPA Registration Number and new Establishment Number (if it has changed) on the labeling at the next printing which should occur no later than 18 months after the effective date of this transfer. After 18 months, any product released for shipment must bear the new Registration Number and Establishment Number. If you intend to use the labels which currently appear on the transferor's product after the effective date of the transfer, but within the 18 month grace period, you must maintain complete and accurate records which identify by batch number, lot number, or other suitable description the quantities of such product bearing the transferor's label. Each container or package bearing the transferor's label which is released after the effective date of product registration transfer, must be clearly and accurately marked with the batch number, lot number or other descriptive designation used to identify the product in your records.

Supplemental distribution agreements of registered products do not transfer with the Section 3 registration. It is your responsibility as the registrant to notify any and all supplemental

distributors of the transferred product(s) of this transfer agreement. If you wish to enter into supplemental distribution agreements of your product(s) under this new registration, the form "Notice of Supplemental Distribution of a Registered Pesticide Product," EPA Form 8570-5, must be submitted to the Agency for each supplemental distributorship.

You are required to contact your local EPA Regional Office to determine what effect this transfer of pesticide registrations has on the pesticide production establishment registration.

It will not be necessary to submit labeling for review if the only changes are in the company designation and the EPA Registration Number. Other changes in the product and/or labeling may require EPA review and approval prior to distribution or sale of the product containing the new registration number. In any correspondence on these products always refer to the U.S. EPA Registration Number listed above.

The transferred registration will have the same status under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, 7 USC 136 et seq., as it had prior to the approval of this transfer.

When registrations are transferred from one company to a second company, all restrictions, data requirements, conditions (suspensions), and deadlines existing on the registrations are transferred with the registrations. The new company is responsible for adhering to or complying with all such restrictions, etc. on the acquired products.

With regard to deadlines, the transferee company is responsible for submitting all required data according to the schedules already established for the acquired products. Failure to do so will result in the issuance of a Notice of Intent to Suspend. Requests from transferee companies for additional time to submit, because they acquired the registration(s) after the 3(c)(2)(B) request was issued will not be granted. If a transferee company has other valid reasons for delays in the testing which were clearly outside of their control, then such requests for time extensions will be considered in accordance with the established procedures. Transfers occurring while a 3(c)(2)(B) request is being issued or during the 90-day response time are subject to the same conditions expressed above.

Registration is in no way to be construed as an endorsement or approval of these products by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with FIFRA.

Furthermore, the transfer of the subject registrations is approved under the condition that the annual maintenance fee obligation has been fully satisfied. The annual maintenance fee is based solely on the total number of active section 3 and section 24(c) registrations held by the transferor. If the annual maintenance fee has not been fully satisfied, the transferee and transferor will be notified to comply within a specified time period or the affected registrations may be canceled.

The Agency acknowledges it has received a request for data transfer received March 04, 2014 to transfer data ownership from the transferor to the transferee. The data transfer is effective the date of this letter. After this date NALCO COMPANY will be considered the data

owner. This action will not automatically reflect on the Data Submitters List. If you want to be added to the Data Submitters List, you must submit a request to:

Document Processing Desk (DSL)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20460

By copy of this letter we are informing the transferor of these changes. If you have any questions about this transfer approval please contact Louis Vaughn at (703) 308-8114.

Sincerely,

Steve Robbins, Chief

Information Services Branch

Information Technology & Resource Management Div. (7504P)

cc: MR. STEVEN P. GIVENS

AKZO NOBEL PULP AND PERFORMANCE CHEMICALS INC.

1850 PARKWAY PLACE, SUITE 1200

MARIETTA, GA 30067

RE: 49620_RAD_1706_04_28_2014

Appendix A Data Assignment

in and the second se

MRID Number	Submission Date	Submitter	Admin Number	Lab No.	Description
44803401	4/15/1999	49620	049620-00004	49620	Lovetro, D.; Beers, S.; Dubeck, J. et al. (1999) Product Chemistry: Purate Precursor. Unpublished study prepared by Keller and Heckman LLP. 115 p. (OPPTS 830.1550, 830.1600, 830.1620, 830.1670, 830.1750)
45072901	3/23/2000	49620	049820-00004	49620	Sinning, D. (2000) Physical and Chemical Characteristics of Purate: Physical State, Oxidation/Reduction Flammability, Explodability, pH, Viscosity and Relative Density, Lab Project Number: 2130-01. Unpublished study prepared by Case Consulting Labs, Inc. 7 p. (OPPTS 830.6303, 830.6314, 830.6315, 830.6316, 830.7000, 830.7100, 830.7300)
<u>45448401</u>	7/8/2001	49620	049620-00004	49620	Sinning, D. (2001) Physical and Chemical Characteristics of Purate: Storage Stability and Corrosion Characteristics: Lab Project Number: 2130-02. Unpublished study prepared by Case Consulting Laboratories, Inc. 18 p. (OPPTS 830.6317 and 830.6320)
<u>47116301</u>	4/26/2007	49620	049620-00004	49620 ·	Rice, C. (2007) Purate: Toxicology Data-Walver Requests. Unpublished study prepared by Keller and Heckman LLP and Eka Chemicals Inc. 26 p.
4711 <u>6302</u>	4/26/2007	49620	049620-00004	49620	Rice, C. (2007) Purate: Human Exposure. Unpublished study prepared by Keller and Heckman LLP and Eka Chemicals Inc. 12 p.
47116303	4/26/2007	49620	049620-00004	49620	Rice, C. (2007) Application for Pesticide Registration Amendment Purate: Ecological Effects and Evironmental Fate Walver Requests. Unpublished study prepared by Keller and Heckman LLP and Eka Chemicals Inc. 19 p.

ws)

